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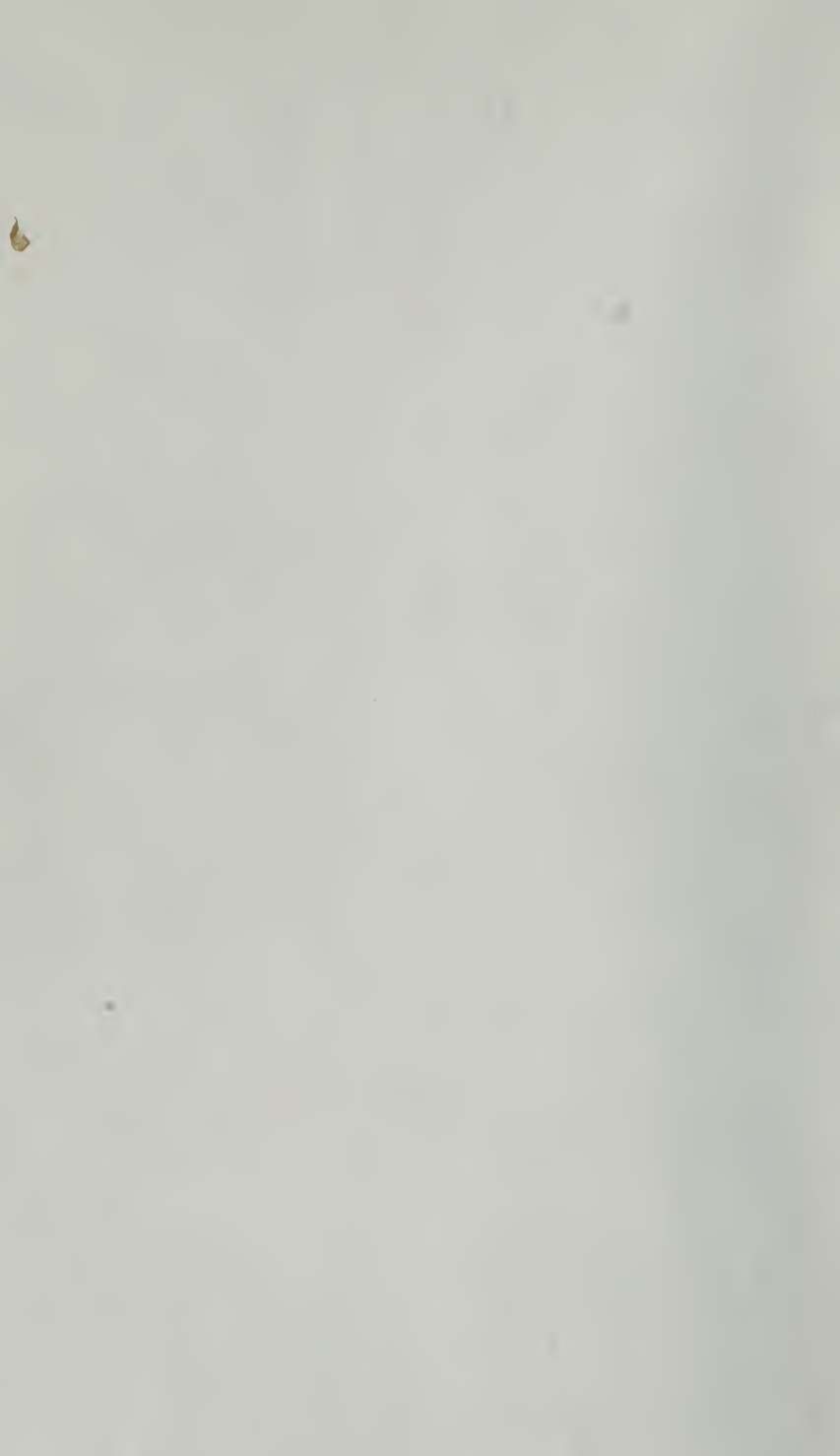
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1889/90





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THE
UNIVERSITY OF DENVER
AND
COLORADO SEMINARY.

CATALOGUE

FOR THE YEAR

1889-90

AND

PROSPECTUS FOR THE YEAR 1890-91.



DENVER, COLORADO,
1890.

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1889/90

The University Calendar.

1890-91.

1890.

Fall Term begins: Wednesday, September 3, 9 A. M.

Fall Term ends: Tuesday, December 23, 12 M.

1891.

Winter Term begins: Wednesday, January 7, 9 A. M.

Winter Term ends: Tuesday, March 24, 12 M.

Spring Term begins: Wednesday, April 1, 9 A. M.

Spring Term ends: Wednesday, June 10, 9 A. M.

Commencement: Wednesday, June 10.

All the Schools, except those of Medicine, Pharmacy and Dental Surgery, concur in the above dates.

The order of Commencement Week will be announced in due time.

The annual meeting of the Board of Trustees is held on Tuesday, June 9, at 12 P. M.

THE COLLEGES OF MEDICINE, PHARMACY AND DENTAL SURGERY.

Lectures begin on Wednesday, September 17.

Commencement, Wednesday, April 22.

Note—The Colleges of Medicine, Pharmacy, Dental Surgery and Business issue each its own circular of information. These are obtained by addressing the Deans thereof and the Principal of the Business College.

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I.
GOVERNMENT.

THE UNIVERSITY IS UNDER THE AUSPICES OF THE COLORADO
CONFERENCE OF THE METHODIST EPISCOPAL CHURCH.

ITS MANAGEMENT IS THOROUGHLY CHRISTIAN,
BUT IN NOWISE SECTARIAN.

BOARD OF TRUSTEES.

TERM EXPIRES 1890.

REV. H. A. BUCHTEL, D. D., Denver.
MR. H. B. CHAMBERLIN, Denver.
MR. JOHN A. CLOUGH, Denver.
MR. H. M. KING, Denver.
MR. J. W. BAILEY, Denver.
REV. O. L. FISHER, Denver.
HON. JOHN W. LACY, Cheyenne, Wyo.

TERM EXPIRES 1891.

EX-GOV. JOHN EVANS, Denver.
MR. J. E. BROWN, Denver.
JUDGE S. H. ELBERT, Denver.
GEN. A. J. SAMPSON, Denver.
REV. J. H. MERRITT, Denver.
REV. N. A. CHAMBERLIN, D. D., Denver.
MR. J. W. GILLULY,^g Denver.

TERM EXPIRES 1892.

BISHOP H. W. WARREN, D. D., Denver.
W. E. WILSON, M. D., Denver.
MRS. MARGARET P. EVANS, Denver.
HON. FRANK CHURCH, Denver.
MRS. ELIZABETH ILIFF WARREN, Denver.
MR. GEORGE C. MANLY, Denver.
EX-GOV. J. B. GRANT, Denver.

TERM EXPIRES 1893.

HON. N. P. HILL, Denver.
MR. I. E. BLAKE, Denver.
HON. W. B. MILLS, Denver.
MR. E. T. ALLING, Denver.
MRS. W. N. BYERS, Denver.
MR. WALTER P. MILLER, Denver.
MR. ALFRED WOLFF, Denver.

OFFICERS OF THE BOARD.

JOHN EVANS,	President
J. W. BAILEY,	Vice-President
WILLIAM B. MILLS,	Secretary
ALFRED WOLFF,	Treasurer

EXECUTIVE COMMITTEE.

The above Officers, together with

I. E. BLAKE,	JOHN A. CLOUGH,	FRANK CHURCH
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WALTER P. MILLER, Financial Agent.

BOARD OF CONFERENCE VISITORS AND EXAMINERS.

A. H. LUCAS.	J. F. HARRIS.	H. L. WRISTON.
G. N. ELDRIDGE,	A. C. PECK.	

ALTERNATES.

S. W. THORNTON.	J. W. LINN.	W. C. MADISON.
B. T. VINCENT.	G. W. RAY.	

FACULTIES FOR 1890-91.

WILLIAM F. McDOWELL, A. M., S. T. B.

Chancellor and President of Each Faculty. Professor of Political Economy and Christian Evidence.

THE COLLEGE OF LIBERAL ARTS.

AMMI B. HYDE, A. M., D. D.,

Vice Chancellor and Instructor of Mental and Moral Sciences, and Professor of Greek and Hebrew.

HERBERT A. HOWE, A. M., Sc. D.,

Professor of Mathematics and Astronomy.

JOSEPH A. SEWALL, A. M., M. D., LL. D.,

Professor of Natural Science.

E. F. STROETER, Ph. D.,

Professor of Latin and Director in Modern Languages

MARY LOWE DICKINSON,

Professor of Eng. Literature and Director of the Home.

FANNY MANLY,

Associate Director of the Home and Instructor in History.

SADIE BROWN,

Teacher of Elocution.

COLLEGE OF MEDICINE.

WILLIAM F. McDOWELL, A. M., S. T. B.,

Chancellor and President of the Faculty.

J. C. DAVIS, M. D.,

Dean, and Professor of the Principles and Practice of Surgery.

W. E. WILSON, M. D.,

Vice-President, and Professor of Materia Medica, Therapeutics and the Diseases of Children.

- S. A. FISK, A. M., M. D.,
Secretary, and Professor of the Practice of Medicine.
- H. K. STEELE, A. M., M. D.,
Emeritus Professor of the Principles and Practice of Surgery.
- J. W. GRAHAM, M. D.,
Emeritus Professor of Medicine.
- F. J. BANCROFT, M. D.,
Professor of Fractures and Dislocations.
- C. M. PARKER, M. D.,
Professor of the Practice of Medicine.
- A. STEDMAN, M. D.,
Professor of Obstetrics and Puerperal Diseases.
- CHARLES DENISON, A. M., M. D.,
Professor of Diseases of the Chest and of Climatology.
- EDMUND J. A. ROGERS, M. D.,
Clinical Professor.
- E. C. RIVERS, M. D.,
Professor of Ophthalmology and Otology.
- H. H. HOWLAND, M. D.,
Professor of Laryngology and Rhinology.
- W. EDMUNDSON, M. D.,
Professor of Public Hygiene.
- J. W. COLLINS, M. D.,
Professor of Gynæcology.
- O. J. PFEIFFER, M. D.,
Professor of Orthopædic Surgery and Clinical Surgery.
- J. A. SEWELL, M. D., LL. D.
Professor of Chemistry.
- A. K. WORTHINGTON, M. D.,
Professor of Anatomy.
- HENRY SEWALL, M. D.,
Professor of Physiology.
- J. T. ESKRIDGE, M. D.,
Professor of Mental and Nervous Diseases and Medical Jurisprudence.

LECTURERS.

JESSE HAWES, M. D.,

Lecturer on Obstetrics.

C. B. LYMAN, A. M., M. D.,

Lecturer on Fractures and Dislocations.

A. A. CLOUGH, A. M., M. D.,

Adjunct Professor of Chemistry.

B. C. LEAVITT, A. M., M. D.,

Lecturer on Therapeutics and Materia Medica.

H. B. WHITNEY, A. M., M. D.,

Lecturer on Genito-Urinary Diseases.

W. W. GRANT, M. D.,

Clinical Instructor.

P. V. CARLIN, M. D.,

Clinical Instructor in Obstetrics.

E. R. AXTELL, M. D.,

Lecturer on Pathology and Histology.

E. P. HERSHEY, M. D.,

Lecturer on Bacteriology.

G. W. GIBSON, M. D.,

Demonstrator of Anatomy.

E. B. LAWNEY, M. D.,

Dispensary Physician.

J. W. COLLINS, JR., M. D.,

Dispensary Physician.

THE COLLEGE OF PHARMACY.

WILLIAM F. McDOWELL, A. M., S. T. B.,

Chancellor and President of the Faculty.

J. A. SEWALL, M. D., LL. D.,

Professor of Chemistry and Dean of the Faculty.

CHAS. M. FORD, PH. G.,

Professor of Pharmacy.

JOHN KOCHAN,

Professor of Botany and Materia Medica, Secretary of the Faculty.

JOSEPH P. KINLEY, M. D.,

Professor of Microscopy.

COLLEGE OF DENTAL SURGERY.

WILLIAM F. McDOWELL, A. M., S. T. B.,

Chancellor and President of the Faculty.

J. M. NORMAN, D. D. S.,

Professor of Operative Dentistry.

J. M. PORTER, D. D. S.,

Professor of Oral Surgery and Pathology.

P. T. SMITH, D. D. S.,

Professor of Histology and Physiology.

M. A. BARTLESON, D. D. S.,

Professor of Mechanical Dentistry.

A. K. WORTHINGTON, M. D.,

Professor of Anatomy.

J. A. SEWELL, M. D., LL. D.,

Professor of Chemistry.

W. E. WILSON, M. D.,

Professor of Materia Medica.

G. W. GIBSON, M. D.,

Demonstrator of Anatomy.

R. D. G. TREEN, D. D. S.,

Demonstrator of Operative Dentistry.

S. DAVIS, D. D. S.,

Demonstrator of Mechanical Dentistry.

CLINICAL INSTRUCTORS.

WILLIAM SMEDLEY, D. D. S.

H. P. KELLY, D. D. S.

CHARLES H. BAGLEY, D. D. S.

J. H. BEALS, D. D. S.

The Colleges of Medicine, Dental Surgery and Pharmacy issue separate announcements.

II.

CURRICULA.

COURSES OF STUDY.

CLASSICAL, LITERARY AND SCIENTIFIC.

Each of the College Fitting Courses is three years in length. All classes recite five hours a week, except a few, which as indicated below, have but two or three recitations a week.

FIRST YEAR.

	1.
Algebra,	Wells' Academic.
Latin,	Jones' Lessons.
History,	Swinton's Outlines.
	2.
Algebra,	Wells' Academic.
Latin,	Jones' Lessons.
History,	Swinton's Outlines.
	3.
Algebra,	Wells' Academic.
Latin,	Jones' Lessons. Cæsar begun.
Botany,	Gray.

SECOND YEAR.

CLASSICAL.		LITERARY AND SCIENTIFIC	
1.		1.	
Plane Geometry,	Wentworth.	Plane Geometry,	Wentworth.
Cæsar.		Cæsar, I, II; III.	
Greek,	White's Lessons.	Rhetoric,	
English (2).		English (2).	
2.		2.	
Plane Geometry,	Wentworth.	Plane Geometry,	Wentworth.
Cæsar, IV, and Virgil begun.		Cæsar, IV, and Virgil begun.	
Greek,	White's Lessons.	Elementary Geology.	
English (3).		English (3).	
3.		3.	
Plane Geometry,	Wells.	Plane Trigonometry,	Wells.
Virgil, I, II.		Virgil, I, II.	
Greek Lessons and Anabasis begun.		Civil Government.	
English (2).		English (2).	

THIRD YEAR.

CLASSICAL.		LITERARY AND SCIENTIFIC	
1.		1.	
German Grammar,	Worman's First Book.	German Grammar,	Worman's First Book.
Virgil, III-V.		Virgil, III-V.	
Anabasis con'd and Iliad begun.		English History.	
Physics (3).	Gage.	Physics (3).	Gage.
2.		2.	
German Grammar,	Der Neffe als Onkel.	German Grammar,	Der Neffe als Onkel.
Virgil VI and Cicero begun.		Virgil VI, and Cicero begun.	
Higher Algebra,	Wells.	Higher Algebra,	Wells.
Physics (3).	Gage.	Physics (3).	Gage.

3.	3.
German Grammar, Mina von Barnhelm.	German Grammar, Mina von Barnhelm.
Cicero's Orations continued.	Cicero's Orations continued.
Iliad I-III.	American Literature.
Physics (3).	Physics (3).
Gage.	Gage.

COLLEGIATE COURSES.

FRESHMAN.

CLASSICAL.	LITERARY.	SCIENTIFIC.
1. Surveying and Solid Geometry. Chemistry, Von Richter. French Grammar, Worman's First Book. German (3).	1. Surveying and Solid Geometry. Chemistry, Von Richter. French Grammar, Worman's First Book. German (3).	1. Surveying and Solid Geometry. Chemistry, Von Richter. French Grammar, Worman's First Book. German (3).
2. Livy. Chemistry, Organic. French Grammar, Worman's Second Book. German (2).	2. Livy. Chemistry Organic. French Grammar, Worman's Second Book. German (2).	2. Mathematical Review. Chemistry. Organic. French Grammar, Worman's Second Book. German (2).
3. Higher Equations, Howe. Odyssey. French Grammar, Comedy. German (3).	3. Higher Equations, Howe. Zoölogy. French Grammar, Comedy. German (3).	3. Higher Equations, Howe. Zoölogy. French Grammar, Comedy. German (3).

SOPHOMORE.

1.	1.	1.
Analytic Geometry, Wentworth.	Advanced German.	Analytic Geometry, Wentworth.
Physics. Ganot.	Physics. Ganot.	Physics. Ganot.
Horace. Odes.	Horace. Odes.	Chemical Laboratory.
French (2).	French (2).	French (2).

2. Elementary Mechan- ics. Wood. Physics. Ganot. Plato. French (3).	2. Advanced German. Physics. Ganot. English. French (3).	2. Elementary Mechan- ics. Wood. Physics. Ganot. Chemical Laboratory. French (3).
3. Elementary Mechan- ics. Wood. Horace. Satires Thucydides. German (2).	3. Advanced French. Horace. Satires. Guizot: History of Civil- ization. German (2).	3. Elementary Mechan- ics. Wood. Guizot: History of Civ- ilization. Chemical Laboratory. German (2).

JUNIOR.

CLASSICAL.	LITERARY.	SCIENTIFIC.
1. Psychology. Porter Physical Laboratory Demosthenes. Descriptive Astron- omy (3).	1. Psychology. Porter. Physical Laboratory. Early English. Descriptive Astronomy (3).	1. Psychology. Porter. Physical Laboratory. Calculus. Taylor. Descriptive Astron- omy (3).
2. Psychology. Porter. Tacitus. De Senectute begun. English Literature.	2. Psychology. Porter. Tacitus. De Senectute begun. English Literature.	2- Psychology. Porter Calculus. Taylor. English Literature
3. Ethics. Calderwood. Rhetoric. Whately. De Senectute and Ter- ence.	3. Ethics. Calderwood. Rhetoric. Whately. De Senectute and Ter- ence.	3. Ethics. Calderwood. Rhetoric. Whately. De Senectute and Ter- ence.

SEÑOR.

1. Geology. Dana. Greek Drama. Logic (3). McCosh. Political Economy (2).	1. Geology. Dana. Universal History. Logic (3). McCosh. Political Economy (2).	1. Geology. Dana. Mathematical Astron- omy. Logic (3). McCosh. Political Economy (2).
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2.	2.	2.
Geology. Dana.	Geology. Dana.	Geology. Dana.
Christian Evidences.	Christian Evidences.	Christian Evidences.
Political Economy.	Political Economy.	Political Economy.
3.	3.	3.
Mineralogy. Dana.	Mineralogy. Dana.	Mineralogy. Dana.
International Law.	International Law.	International Law.
History.	History.	History.

SELECTED STUDIES.

Students not wishing to pursue any of the regular courses, will be assisted by the Faculty in selecting from the current studies such as will be most valuable; and, remaining not less than a year in the University and accomplishing their work satisfactorily, will receive an official certificate of work actually done. But all students are urged to take one of the regular courses.

SEMINARY DIPLOMAS

Are awarded to students who complete any of the regular Collegiate Preparatory Courses, as given on pages 16 to 19. If circumstances prevent their further advancement they have the satisfaction of knowing that they have accomplished a course thoroughly respectable and adequate to the average demand.

THE JUNIOR PREPARATORY.

MISS ALICE J. BROWNELL, *Principal*.

ALMEDA E. LOOMIS, *First Assistant*.

MISS ANNIE UNDERHILL, *Second Assistant*.

The work covers all the public school course below the high school. Special attention is given to the peculiarities of individual students; to their morals and manners. Drill in composition and declamation is faithfully had in exercises suited to each grade. The school house is within the University enclosure, and is fitted for the health and happiness of the pupils. No pupil under fourteen years of age is admitted to the Ladies Home as a boarder; this school is therefore recruited almost entirely from Denver homes, though some families have removed to the city to secure its advantages. School hours are 8:45 a. m. to 12 m., 1 to 2:30 p. m. Its terms and vacations coincide with those of the other schools.

The Aonia Society is for scholars of the three highest grades. All these are required to join it; its aim being to cultivate confidence and ability in literary and kindred exercises.

The fee for Society purposes is fifty cents per term.

CONSERVATORY OF MUSIC.

FACULTY FOR 1890-91.

GEORGE F. BRIERLY, *Dean*.

PIANO.

HENRY HOUSELEY, F. C. O. (London.)

MISS GERTRUDE PRENTISS.

MRS. C. VAUGHAN EAVES.

THEORY OF MUSIC,

Including Harmony, Counterpoint and Composition.

HENRY HOUSELEY, F. C. O.

VOCAL MUSIC.

GEORGE F. BRIERLY.

MISS ELSIE LINCOLN.

ORGAN.

HENRY HOUSELEY, F. C. O.

VIOLIN, VIOLONCELLO AND OTHER ORCHESTRAL
INSTRUMENTS.

As occasion requires, competent teachers will be provided in this department.

It is the earnest desire of the authorities of the University to make the Conservatory of Music a medium for a thorough musical education on a broad and substantial basis. Since its organization, the number of pupils has steadily increased, and a higher standard been developed consistent with the rapid growth of this large city. A still greater number of pupils is expected during the coming year; and to meet this demand, the director will

spare no pains to make this institution thoroughly effective in all its departments.

The course of study will include the following: Piano-forte, Organ, Violin, Orchestral Instruments, Voice Culture, Theory of Music (including Harmony, Counterpoint, Musical Form), and Composition.

THE PIANO.

Its adaptability to the requirements of the musician, as well as its deserved popularity among the masses, make the study of this instrument a matter of primary importance to the musical student. While due attention will be given to the development of technique, special pains will be taken to encourage those higher and nobler qualities inseparable from the true pianist.

ORGAN.

Preparatory to the study of the "King of Instruments," it is desirable that the student should possess a fair amount of digital dexterity on the piano. Every facility for obtaining practice will be offered in this department.

VOICE CULTURE.

The importance of this subject cannot be overestimated. The voice, as a means of musical expression, is without a rival. In the social circle, in the church or concert room alike, it always holds a very prominent position, and although impossible that all should excel as soloists, still it should be the duty of every musical student, whatever his or her special subject may be, to combine with it the study of the greatest of instruments—the Human Voice.

HARMONY AND COUNTERPOINT.

That these subjects should be so much neglected is greatly to be regretted. The literary connoisseur, without a knowledge of the grammar of his own language, would be a paradox. Alas, how many musical paradoxes of this character have we! Musical students in every department should seriously consider the grammar of their art a necessary study.

MUSICAL ANALYSIS.

With a view to aiding a better and more intelligent appreciation of the classical works of the great masters, a class for this subject will be formed. The method adopted will be to consider the form (plan or design) of each composition selected for study, also to make a complete analysis from a harmonic and rhythmical standpoint. A fair knowledge of harmony will be necessary before taking up this subject.

PUPILS' RECITALS.

These will be always considered an important feature of the student's early training. Acting as a healthy stimulus, these recitals induce painstaking industry, impart confidence in playing and singing in public, and win due recognition and appreciation from friends, which is always encouraging to the student, acting as an incentive to continued efforts.

LECTURES.

These will be given periodically during the season. Interesting subjects appertaining to the musical art will be chosen, and will be given with practical illustrations.

GRADUATION.

The Diploma of the University will be granted to those who complete satisfactorily a course of study in any department, after at least one year's continued study.

TUITION.

PIANOFORTE, ORGAN, VIOLIN AND ALL ORCHESTRAL INSTRUMENTS.

PREPARATORY COURSE.

	16 weeks 1st Term	13 weeks 2d Term	11 weeks 3d Term
Class Lessons (3 in class), one hour per week, ..	\$ 6 00	\$ 5 00	\$4 00
Class Lessons (3 in class), two lessons per week	12 00	10 00	8 00
Private Lessons, one-half hour per week	8 00	6 50	5 50
Private Lessons, two lessons per week	16 00	13 00	11 00

ADVANCED COURSE.

Class Lessons (3 in class), one hour per week ..	\$12 00	\$10 00	\$8 00
Class Lessons (3 in class), two lessons per week	24 00	20 00	16 00
Private Lessons, one-half hour per week	16 00	13 00	11 00
Private Lessons, two lessons per week	32 00	26 00	22 00

HARMONY, COUNTERPOINT AND COMPOSITION.

In Classes, one hour per week\$ 8 00 \$ 6 50 \$5 50

VOCAL DEPARTMENT.

Terms of Tuition for One Month.

Two Lessons per week of sixty minutes each\$24 00
 Two Lessons per week of forty minutes each. 16 00
 One Lesson per week of sixty minutes each..... 12 00

CLASS LESSONS.

Class of six pupils, two lessons per week, each.....\$ 4 00
 Ladies' chorus, two lessons per week, each 2 00

UNIVERSITY OF DENVER ART SCHOOL.

SPECIAL ANNOUNCEMENT FOR THE SEASON OF 1890-1891.

Principal of the Department of Art and Painting,

MISS IDA DE STEIGUER.

Principal of the Department of Sculpture and Modeling,

PRESTON POWERS.

This school, organized with the founding of the University in 1880, has steadily grown in strength and usefulness until it has become the most important Art School of Denver. It now offers opportunity and facility for most thorough and earnest study in all branches of drawing, from the elementary to the finest models of the classic antique, and in painting in oil or water colors from life, landscape, objects, flowers and fruit, also decorative art as it is applied to making the home beautiful.

Miss Harriet Hosmer, in her recent visit to the University, was enthusiastic in her praise of the excellence of the work being done here, saying: "You are on the right road; if you will be great artists keep at your drawing and painting from nature."

"There is no royal road to art."

INSTRUCTION.

The general course of instruction comprises drawing and perspective from objects, simple geometrical solids, cast of leaves, fruit, vases, ornamental reliefs, from casts of parts of the human figure, arms, hands, feet, and from the antique, model, life and draped figure; and painting in oil or water colors from life, draped model, landscapes, fruit, flowers, game, draperies, and decorated art.

CERTIFICATES.

Certificates will be given to pupils in any particular branch, if they do not desire to take the entire course.

DIPLOMA.

To secure the degree of Bachelor of Painting, the student in addition to completing the technical course must have spent at least two years in this college, and accomplished the equivalent of preparatory course.

THE MARGARET EVANS PRIZES FOR 1890-91.

The prizes are the gift of Mrs. Margaret P. Evans.

First—To best drawing from antique, \$50.

Second—To second best drawing from antique, \$25.

Third—To best drawing from plate fruits, flowers or architectural ornament, \$15.

Fourth—Second best elementary drawing, \$10.

A "Distinguished Certificate of Merit" shall be presented to the one executing the best portrait from life, in black and white.

Fifth—To best painting in oil or water colors from nature, a medal. Second best, honorable mention.

The prizes in painting are only awarded to those who have studied six months or its equivalent in the Drawing Department.

Therefore, it is necessary that the competitors for any of these prizes have been members of the Art Department for six months.

CLASS HOURS.

Painting in oil or water colors, Monday and Friday, from 9 to 12.

Drawing, Tuesday and Friday, from 2 to 5.

Life class, Saturday, from 11:15 to 12. This class is *free* to *all* art students.

A Ladies' class will be formed for those who cannot take the entire course, or who do not desire to enter for the prize.

The class may study all the week, or as much time as they can devote to the work, but it is not necessary or so well for the pupils for the teachers to always be present.

RULES AND REGULATIONS.

Students can enter any class immediately upon submitting specimens of work which show the necessary proficiency, or by special arrangement with the teacher they may enter for study in any particular branch. Pupils enter for two lessons a week, though more can be arranged for at special prices.

All work done by pupils must be carefully preserved by them, and at the end of the year the best will be selected by the Principal for the Annual Exhibition.

All breakages of casts or damage to art rooms will be at the expense of the pupil.

TERMS.

Drawing in charcoal from elementary objects or antique, painting in oil or water colors, first term, \$20; second term, \$16; third term, \$14. Payable by the term, in advance, to the Financial Agent, University Office.

The Department of Sculpture of the University of Denver, in charge of Preston Powers, has greatly advanced during the past year.

Spacious and thoroughly equipped quarters have been assigned to it in the Junior Preparatory building.

Its greatest acquisition consists of a very complete collection of plaster casts, some of them valuable and rare specimens, procured last year in Italy, through the munificence of Mrs. Margaret P. Evans, so that this department of art instruction may now be said to be entirely furnished and prepared for excellent work in the future.

Every style of expression is represented among these casts.

There are beautiful children's heads; delicate female faces, as the Ct. Cecilia, by Donatello, and A Lady's Head by Della Robbia; and strong masculine subjects, as the busts of Julian de Medici, Francesco Sassetti, and Nicolo da Uzzano.

Among the statues are valuable casts of Venus de Medici and the dancing Faun, both difficult to obtain, as the original moulds are worn out, and no more will be allowed to be taken. There is also the original cast of

Pampaloni's Cloe, and a fine anatomical figure by Condon.

Sculpture has hitherto been regarded as almost exclusively adapted to the masculine sex. In fact, the number of well-known woman sculptors is limited to a very few names beside that of Harriet Hosmer.

Yet the modeling class in the University has, with only three exceptions, been made up of ladies, and the character of the work done by them, since it had its beginning, has been very satisfactory and promising.

Portraits in relief, and busts have been produced, some of which have been cut in marble.

Mr. Powers possesses the faculty of imparting his knowledge, as well as enthusing students, and is always beloved by his class. Under his direction, and with the material already gathered, the prospects for this branch of the University are most gratifying.

TUITION.

This will consist of:

First.—SCULPTURE—Modeling in clay of the human figure and its accessories, according to anatomical proportions and classic principles.

Second.—MOLDING—The handling of plaster paris and other materials used in reducing the clay model to a permanent form, and in duplicating casts by means of "gelatine and piece-molds."

LENGTH OF COURSE.

As the progress of the pupils will depend entirely on their perception and application, no specified period can be named as a course of study; in fact every artist learns or *can learn* something more to the last year of his life; he never ceases to be a student.

The first year will be devoted to *simple* modeling from casts and from life, as the pupil progresses, till the hands are accustomed to the manipulation of the clay, and the eyes to seeing form correctly, both in the cast and in the living subject.

From this time, and still in accordance with the pupil's progress, the full length living model will be introduced, placed on a raised platform in the centre of the class-room, the pupils standing at a suitable distance

around it, and each modeling the entire figure as quickly and correctly as possible in the one sitting.

During the course of tuition Mr. Powers will instruct the pupils in the principles of artistic anatomy, aided by excellent life size charts.

ADVANTAGES TO STUDENTS OF DRAWING.

This practice of the eyes may be profitably enjoyed by the drawing class as well, and at the same time, with their teacher in attendance. In fact, the modeling and drawing classes should work into each other's hands, if it may be so expressed, as it will be fully as valuable to the pupils of the drawing classes to learn to *make* form while they learn to *represent* it, as for those of the modeling class to learn to *see outlines* by drawing them on paper. The fact that form is the foundation of all the representative arts, is being recognized in all art schools of the present time, and many students are learning to model in order that they may learn to draw correctly. This cannot be too strongly recommended.

LECTURES.

As soon as the pupils are sufficiently advanced to appreciate the matter of such lectures, Mr. Powers will, with plates and instruments for illustration, lecture on the Sculpture of the Ancients, beginning with the Egyptians and Assyrians, following its course down through the age of the early Greeks, that of Phidias and his contemporaries, Praxiteles and the Sculptors of his time; the decline of Sculpture that followed that period, and finally its renaissance under the Pisani and Michael Angelo. These lectures will not be necessarily confined to Sculpture, though this will be their objective feature; painting and architecture will come in where they may become necessary in the illustration of the main subject.

While these lectures will be directed to the pupils, they will be open to others interested in art.

HOURS OF LESSONS.

As it is an advantage to the pupils to have days to work in, when, without the assistance of the teacher, he has to rely on himself and use what has been taught him

in former lessons, the hours with the teacher will be: Class in Modeling from Casts, Tuesday and Friday, from 2 to 5; Class in Modeling from Life, Tuesday and Friday, from 9 to 12. This will give the pupil the other days in the week to work unassisted, if he wishes to be diligent and see what he can do by himself.

For all information and arrangements, apply to Mr. Powers, either at the class-room, during lesson hours, or at his studio in the new Barth Block, Sixteenth and Stout Streets, at other times.

REQUIREMENTS.

Each pupil will supply himself with easels and modeling stands as required, also modeling tools and clay covers.

The University provides a sufficient quantity of clay and receptacle to keep it in, also the utensils used in plaster work, such as bowls, spoons and spatulas. For the use of these things, each pupil will be charged the nominal sum of fifty cents per month. As to plaster paris, the pupil can purchase such quantity as he requires from time to time. Life subjects furnished by students at their own expense.

REGULATIONS.

First—No conversation during lesson hours.

Second—Pupils will not be allowed to receive visitors or friends in the class-room during lesson hours.

Third—Owing to the nature of the material used in modeling, special neatness must be observed and no plaster work, except repairing, will be allowed in the class-room—a suitable place being provided for moulding and all such work.

Fourth—Pupils will expect to model only such subjects as the teacher assigns to them.

CHARGES.

(Term of 12 weeks, two lessons per week.)

Life Class,	-	-	-	-	-	-	-	\$30
Casts,	-	-	-	-	-	-	-	\$25

Payable by the term, in advance, to the Financial Agent of the University.

BUSINESS DEPARTMENT.

THE BUSINESS COLLEGE.

WILLIAM F. McDOWELL,

A. M., S. T. B., Chancellor.

ROBERT J. WALLACE,

Dean of the Business College and Principal of the Business Department.

MAUDE E. WALLACE,

Assistant Business Department.

FRANK A. TIMBY,

Assistant Business Department.

C. H. DONALDSON,

Assistant Business Department.

JAY M. LIND, M. A.,

Principal Stenographic Department.

ARTIE W. VAN DUZER,

Assistant Stenographic Department.

JOHN HIPPI, Esq.,

Attorney at Law.

Lectures on Commercial Law.

This College is not merely a branch of the Academic Department, but is a College in the fullest sense, conducted by a full staff of teachers of its own, all of whom have had considerable practical experience in business.

The rooms for book-keeping, arithmetic, penmanship, shorthand, typewriting, and recitation rooms are large, airy and well lighted, and furnished with modern appliances and furniture.

There are regular hours for attendance, and regular class recitations, as well as individual instruction given.

This Department has educated a large number of bright and efficient accountants who are either occupying lucrative positions with good houses, or are engaged

in mercantile business on their own account. The attendance and general satisfaction manifested by the students give good promise for a large growth. The system in this department is equal to that of any in the land, either east or west, and is intended to be the most efficient possible for preparing young ladies and gentlemen for the active duties of a business life.

The studies pursued are: Short-hand, Type-writing, Business Arithmetic, Spelling, Business Correspondence, Commercial Law, Penmanship, Business Forms, Finance, Theoretical Book-keeping, Actual Business and Practical Book-keeping, with lectures on how to conduct business successfully; how to make collections; manner of opening and closing a set of books for others; of shipping; of making remittances, and manner of dealing with banks.

The Principal is a practical business man and accountant, who has had years of experience in business and business colleges.

Parties who have no reputation to be affected, advertise to make students proficient book-keepers in thirty days; but they promise impossibilities. The small additional expense of a few months' tuition may prevent costly and far-reaching mistakes.

It is evident that to keep books accurately in the hurry and bustle of business, and to make out papers that hold parties responsible for thousands of dollars, require a thorough acquaintance with books and with the laws that govern business paper. It is also evident that this cannot be accomplished in a few weeks. We will take students for any length of time they wish to attend, and give them all the instruction they could get anywhere in the time; but we will not graduate any who are not thoroughly equipped, not only for keeping books, but to do business intelligently and safely. The reputation of our institution demands this, and it is due to those who wish to be thorough that we should give diplomas to none others.

The length of time for a thorough course depends upon the previous advantages the student has had and his natural ability; the time usually taken, however, is from four to six months.

Students can enter at any time with equal advantages.

BOOK-KEEPING AND BUSINESS.

A large, well-lighted, well-ventilated and well-heated hall and rooms are assigned to the students in Business and Book-keeping, containing bank, emporium and freight office, with other necessary furniture. The student first enters the JUNIOR DEPARTMENT, being here instructed in the rudiments of book-keeping, from which he passes to the SENIOR DEPARTMENT, where the more difficult and practical part of book-keeping is taught, together with business papers, such as notes, drafts, bank drafts for remittances, checks, receipts, bills of sale, mortgages, deeds, bonds, contracts, etc., etc. While in the Senior Department students buy and sell to and from each other; deposit in bank; give and receive cash and checks; make out statements of accounts, and collect from each other; endorse checks, making entries for such transactions; close the ledger, etc., all under the immediate supervision of the teachers. When their work is satisfactorily done, they are passed to the ACTUAL BUSINESS DEPARTMENT. Here they are furnished with capital for going into business, in which they keep their own accounts, using, with other auxiliary books, check-book, order-book, draft-book, bank deposit book, bill-book, receiving-book, etc.; ship through freight office, receive goods through same; pay freight on expense bills; make drafts on customers, and collect same through bank; have notes collected by bank; receive warranty deeds for real estate; give quit-claim deeds; receive lease on warehouse rented; have same transferred to other parties; make written contracts; write and receive letters and telegrams; buy out other parties in business; sell out business; burn out; and in each business in which they engage, close books and effect settlement with all parties. In these transactions the student uses the same blanks for papers that are used in real business, and books somewhat similar to those used by business men; have bank bills somewhat similar to those in general use; and representation of all property hazarded.

EXAMINATIONS.

Every set is examined, percentage given for same, and no student is permitted to pass to another set until his work is entitled to 85 per cent. Examinations are

held twice a week, both oral and written, and any student can enter the one following the examination he has passed as soon as he is ready for it; so that apt scholars are not retarded by dull ones, but can pass through as rapidly as they are able. The examinations embrace Accounts, Statements, Closing Ledger, Journalizing, Books, Single Shipments, Joint Shipments, Arithmetic, Commercial Law, Penmanship, Book-keeping and Business Correspondence.

PENMANSHIP.

We teach the Spencerian System as used in business, and waste none of the student's time in pernicious flourishing. We have copy books ruled specially for the work, and the daily copies are written on the blackboard and analyzed.

BUSINESS CORRESPONDENCE.

It is of primary importance that the student should receive a thorough drill in business correspondence, for two reasons: First, it teaches more about business matters and the manner of doing business well and safely—as a large number of business letters are contracts—than can be taught in any other way; second, the most lucrative positions are open to good business correspondents.

Lectures are delivered weekly. A subject for a business letter is given and the manner of treating it is discussed, and then left to the student to write upon. These letters are opened and read to the school, without names, for criticism by both teacher and scholars, after which a model letter on the same subject is placed on the blackboard, thus affording the students a valuable list of model letters to study and for future aid.

LECTURES.

Two, and sometimes three, lectures are delivered every week, and students are expected to take copious notes, that they may prepare themselves for examination on the subjects under discussion.

A large number of our students in this department find situations before graduating, and so leave as soon as they believe themselves competent to fill the positions they have in view; others, being limited for time, attend

two, three or four months, as their time will permit, and go back to the positions they previously occupied. Several instances have come under our observation where the latter have, soon after returning, been advanced for their acquired knowledge.

This year's attendance has been an unprecedented one, having a larger number in attendance than for the two previous years. The commodious rooms occupied at the beginning of the year have been found to be too limited, so that we have been obliged to secure another room for our "speed" class in Shorthand. A great change has been made in all our rooms, in the way of additional furniture, making them the most cheerful and helpful of any business college. We are now using a text-book, compiled by the Principal, which has already proved very advantageous in advancing students in the knowledge of both business methods and in book-keeping.

STENOGRAPHIC DEPARTMENT.

This department has improved wonderfully under the management of Professor Jay M. Lind, M. A., having increased greatly in numbers and efficiency. Some of the best business firms and professional men have graduates from this department in their employ, and we find that the demand for stenographers is outgrowing the numbers in attendance, so that we have had to go outside of our class to answer all the calls upon us.

The call this year for graduates from the business department has been so great that we have had to send out students before they had fully finished their course, all of whom are giving satisfaction.

ADDRESSES.

Addresses were delivered before the students and their friends this year by Bishop H. W. Warren, Ex-Gov. John Evans, R. T. Cassell, Esq., Hon. W. B. Mills, F. H. Levering, Esq., The Rev. Dr. Tupper, and others. Arrangements are being made with leading business men and statesmen in the city and state for short addresses during the coming year.

For further particulars address ROBERT J. WALLACE, Principal.

OFFICERS AND TEA
... OF ...
THE HAISH MANUAL TRAINING SCHOOL

WILLIAM F. McDOWELL, A. M., S. T. B.,
Chancellor.

HERBERT A. HOWE, A. M., Sc. D.,
Professor of Mathematics and Astronomy.

JOSEPH A. SEWALL, A. M., M. D., L. L. D.,
Professor of Natural Science.

Edgar L. Brother

Superintendent of Manual Training School and Instructor in Forging
Machine Work, Carving and Drawing.

MARY LOWE DICKINSON,
Professor of English Literature and Director of the Home.

Miss C. L. Crook

Instructor in Modern Languages.

FRED W. HART,
Instructor in Carpentry, Wood Turning, and Mechanical Drawing.

FANNIE MANLY,
Instructor in History.

MISS ALICE J. BROWNELL,
Principal of Junior Preparatory Department.

THE HAISH MANUAL TRAINING SCHOOL.

THE PURPOSE OF THE SCHOOL.

The object of the Manual Training School is to supplement the English scientific course of instruction in the University by a course of drawing, domestic economy and shop work, as given in this report.

The drawing instruction will cover the elementary ground that underlies the arts and sciences generally,

and, like the tool instruction, will not be confined to any one field of study, but will aim at a broad education. The tool instruction will include carpentry, wood turning, pattern making, wood carving, forge work, brazing, moulding and casting, chipping and filing, and the use of machine tools and such other instructions of a similar character as may be deemed advisable to add from time to time. The instruction in domestic economy will partake of the same general character, and will attempt to develop these womanly traits which make the good house keeper from women in general. This school exacts close and thoughtful study with books, as well as with tools.

It is already proven that Manual Training schools have a tendency to keep boys in the high schools and colleges of which they are connected.

Too many bright boys leave school and go to work at an early age, not because they are lazy, but because the feeling of ability to be doing something—to be a part of the great business world, overpowers their inclination for strictly book knowledge. Give such boys an opportunity to work off this surplus energy in the shop and draughting room, where they can *feel* themselves employed, and you will have high school and college classes graduating with something like an equality of numbers between the sexes.

The Manual Training School clearly recognizes the pre-eminent value and necessity of intellectual development and discipline. This school exacts close and thoughtful study with books as well as with tools.

It occasionally happens that students who have special aptitudes in certain directions, find great difficulty in mastering subjects in other directions. In such cases it is often the best course to yield to natural tastes, and to assist the student in finding his proper sphere of work and study.

It is confidently believed that the development of this School will prevent those serious errors in the choice of a vocation, which often prove so fatal to the fondest hopes. One great object of the School is, to foster a higher appreciation of the value and dignity of intelligent manual labor.

With the acquisition of skill in himself comes the willingness to recognize skill in his fellows. A boy who

sees nothing in manual labor but dull brute force, despises both the labor and the laborer. When once he appreciates skill in handicraft, he honors the workman. In a Manual Training School, tool work never descends into drudgery, the tasks are not long nor are they unnecessarily repeated. It is not assumed that every pupil who enters this school is to be a mechanic. Some will find they have no taste for manual arts, and will turn into other paths, law, medicine or literature, but whatever may be the future pursuit, professional, mercantile or mechanical, the result will be a truer estimate of laboring and manufacturing people, and a sounder judgment on social problems. Most students will find their greatest usefulness, as well as highest happiness, in some branch of mechanical work, into which they will readily step when they leave school. Special trades will not be taught, nor will articles be manufactured for sale. It is the trained mind and hand that is put upon the market. The scope of a single trade is too narrow for educational purposes. Manual education should be as broad and liberal as a strictly intellectual one.

Students have no option or election as to particular studies, each must conform to the course as laid down, and take the branches in their order. A shop which manufactures for the market, and expects a revenue from the sale of its products, is necessarily confined to salable work, and a systematic and progressive series of lessons is impossible, except at a great cost. If the object of the shop is education, a student should be allowed to discontinue any task or process the moment he has learned to do it well. If the shop were intended to make money, the students would be kept at work on what they could do best, at the expense of breadth and versatility.

THE COMBINED COURSE OF INSTRUCTION

Covers four years and the school time of the pupil is about equally divided between mental and manual exercises. Forty-five minutes per day is given to drawing, and from three-quarters to two hours to shop work.

THE SMALL AMOUNT OF SHOP PRACTICE.

The time spent in shop work has never exceeded two hours per day, unless the boys have voluntarily remained

after hours for additional practice. There should be subtracted from this time fully ten minutes for washing, dressing, etc. A week, therefore, represents from three to nine hours of actual work in a shop.

DETAILS OF SHOP INSTRUCTION.

The shop instruction is given similarly to laboratory lectures. The instructor at the bench, machine or anvil, executes in the presence of the whole class the day's lesson, giving all needed information, and at times using the blackboard. When necessary, the students make notes and sketches (working drawings), and questions are asked and answered that all obscurities may be removed. The class then proceeds to the execution of the task, leaving the instructor to give additional help to those who need it. At a special time the lesson ceases, when the work is finished it is brought in, commented on and marked.

The course of study will embrace five parallel lines—three intellectual and two manual, as follows:

First.—A course in pure Mathematics, including arithmetic, algebra, geometry, and plain trigonometry.

Second.—A course in Science and applied Mathematics, including physical geography, natural philosophy, chemistry, mechanics, mensuration.

Third.—A course in Language and Literature, including history, civil government, English grammar, composition, spelling and literature.

Fourth.—A course in Free-hand and Mechanical Drawing, penmanship and amateur photography.

Fifth.—(1). A course of Tool Instruction, including carpentry, wood turning, wood carving, forging, brazing, moulding and casting, bench and machine work.

(2). Instruction in Domestic Economy, including light wood work and carving, cooking, sewing, cutting and fitting of garments.

The arrangement of studies and shop work by years is substantially as follows, subject to such changes as experience may dictate.

COURSE OF COMBINED STUDY AND TRAINING FOR BOYS.

FIRST YEAR.

Junior Preparatory.

1. *Mathematics*.—Arithmetic, Algebra.
2. *Science*.—Physical Geography.
3. *Language*.—Writing, Spelling and English Composition.

Manual Training School.

4. *Drawing*.—Free Hand and Mechanical and Lettering.
5. *Shop Work*.—Carpentry, Joining, Jig Sawing, proper care and use of tools.

SECOND YEAR.

Senior Preparatory.

1. *Mathematics*.—Plain Geometry.
2. *Science*.—Physiology and Botany.
3. *Language*.—History and American Literature.

Manual Training School.

4. *Drawing*.—Free Hand and Mechanical, Designs for Wood Carving and Photography.
5. *Shop Work*.—Wood Turning, Pattern Making, Wood Carving.

THIRD YEAR.

College Preparatory.

1. *Mathematics*.—University Algebra.
2. *Science*.—Civil Government, Physics.
3. *Language*.—Rhetoric, and Composition.
4. *Drawing*.—Shading and Architectural.
5. *Shop Work*.—Forging, Welding, Tempering, Brazing, Soldering, Moulding and Casting.

FOURTH YEAR.

College Course.

1. *Mathematics*.—Solid Geometry and Trigonometry.
2. *Science*.—Chemistry, Astronomy.
3. *Language*.—English History and Composition.
4. *Drawing*.—Machine and Architectural Details, Decorative Designing.

5. *Machine Shop Work*.—Chipping, Scraping, Filing, Turning, Drilling, Planing, etc. Study of machinery, care of engine and steam boilers.

The course in drawing embraces three general divisions:

1. Free-Hand Drawing, designed to educate the sense of form and proportion; to teach the eye to observe accurately, and to train the hand to rapidly delineate the form either of existing articles or of ideals in the mind. It includes free-hand perspective from objects in light and shade, coloring and designing.

2. Mechanical Drawing, including the use of instruments; geometric constructions; the arrangements of projections, elevations, plans and sections, also the various methods of producing shades and shadows with pen or brush, and various studies in lettering.

3. Technical Drawing, illustrating conventional colors and signs; systems of architectural or shop drawings; and at the same time familiarizing the student with the proportions and details of various classes of machines and structures.

And, as at present arranged, will comprise the following:

FIRST YEAR.—Principles of projection drawing; free-hand elevation, plans and sections of various objects; the use of drawing tools, including practice in pen lining, etc.; working drawings to scale, including plans, elevations, sections and details of various machines and parts of machines; lettering; free-hand perspective from models.

SECOND YEAR.—Geometrical constructions; problems in oblique orthographic projection; water coloring in flat washes; development of surfaces as applied to sheet metal pattern work; isometric projection; free-hand perspective in light and shade from objects.

THIRD YEAR.—Pen line shading; projection of shadows; mechanical perspective; architectural working drawing, including plans, elevations, sections, perspective and details of buildings and building construction.

FOURTH YEAR.—Water color shading of machines, machine design and construction; machine drawing, including the laying out of trains of gearing, etc.; geometrical ornamentation, and the elements of decorative art work; pen sketching.

PHOTOGRAPHY.

The art of photography is now becoming so attractive and fascinating among the young people, that it should be a part of manual training work. The process of developing and the use of dry plates being so convenient that the amateur can become quite proficient with but a short experience.

Wonderful achievements in the photographic world have followed each other with such rapidity of late years, that we are no longer startled at anything short of the miraculous. The more difficult a thing is before it is accomplished, the simpler it appears after it has been accomplished. The greatest inventions of the age appear so simple to us now that we ask ourselves, why has not this thing been done long ago? The advantage the amateur now has is wonderful.

By the use of dry plates and transparent films the photographer can make as many exposures as he wishes and wait until he returns home before developing them. At the present time amateur photographic outfits are so cheap that almost any one can afford to have one.

The arrangement of our darkroom, (for developing and working photographic materials) is very complete.

COURSE OF INSTRUCTION IN PHOTOGRAPHY.

The instruction will not be limited to the supposition that is given in the price list of the Kodak camera, which reads: "Pull the slide and press the button and we do the rest." But here the student does it all from pulling the slide to finishing the picture.

Photography will take the place of drawing the second term of the first year for girls, and the first term of the second year for boys.

COURSE OF STUDY AND TRAINING FOR GIRLS.

Domestic Economy Department.

The course in Domestic Economy is arranged with special reference to giving young ladies such a liberal and practical education as will inspire them with the dignity and nobleness of an earnest womanhood, and will incite them to a faithful performance of the every day duties of life. The design of this course is to furnish

thorough instruction in applied house keeping, and the science relating thereto, and students will receive practical drill in all branches of house work; in the purchase and care of family supplies, and in general household arrangement; but will not be expected to perform more labor than is actually necessary for the desired instruction.

The course in Textile Fabric work will include instructions in plain and fancy sewing, cutting, fitting and making of garments; the economical and tasteful use of materials, millinery, etc.

FIRST YEAR.

Junior Preparatory.

1. *Mathematics*.—Arithmetic and Algebra.
2. *Science*.—Physical Geography.
3. *Language*.—Writing, Spelling and Composition.

Manual Training School.

4. *Drawing*.—Free-Hand and Photography.
5. *Domestic Economy*.—Light Carpentry, Wood Carving, care and use of tools and wood finish.

SECOND YEAR.

Senior Preparatory.

1. *Mathematics*.—Plain Geometry.
2. *Science*.—Physiology and Botany.
3. *Language*.—History and American Literature.

Manual Training School.

4. *Drawing*.—Free-hand and mechanical designs for Wood Carving.
5. *Domestic Economy*.—Instructions in preparing and cooking food, arrangement of table, purchase of household supplies, etc.

THIRD YEAR.

College Preparatory.

1. *Mathematics*.—University Algebra.
2. *Science*.—Civil Government and Physics.
3. *Language*.—Rhetoric and Composition.

Manual Training School.

4. *Drawing*.—Free-hand and Architectural.
5. *Domestic Economy*.—Introduction to course in plain Sewing and Garment Cutting and Making.

FOURTH YEAR.

College Course.

1. *Mathematics*.—Solid Geometry and Trigonometry.
2. *Science*.—Chemistry and Astronomy.
3. *Language*.—English History and Composition.

Manual Training School.

4. *Drawing*.—Architectural Details and Decorative Designing.
4. *Domestic Economy*.—Cutting, Making and Fitting of Garments, Household Decorations, Millinery, etc.

The above course in Domestic Economy is arranged so as to give young women as liberal and practical an education in the Manual Training School as is arranged for the boys.

ARRANGEMENT OF SHOPS.

The shops have all been newly arranged and are equipped with the latest improved tools and appliances. The carpentry shop has benches and conveniences for 128 students. The forging shop has been newly arranged and equipped with the latest improved Buffalo forges and a Sturtevant exhaust fan; this department can accommodate as at present, thirty-six students. The machine shop has equipment for twenty students; this department has received some of the Putnam Machine Co.'s latest improved machinery. One of C. B. Rogers' latest improved scroll saws has been placed in the carpentry shop for use by the carpentry class in cutting out brackets for house construction.

GENERAL REGULATIONS.

Boys and girls are expected to be earnest, faithful, truthful and polite. Everyone is expected to do his best promptly and cheerfully under all circumstances. The work of the school is suppose to stand first in

importance, and parents should not allow trifles to interfere with it. Absences and irregularities of all kinds are reported to parents.

Regular quarterly reports of the standing of the pupils are made to parents.

Pupils whose influence is found to be bad are dismissed; and those who fail to make a good progress in their work after a reasonable trial, are required to withdraw.

GENERAL INFORMATION.

The school term is divided into three terms of sixteen, twelve and twelve weeks respectively.

The fees are by the term, and are payable in advance.

The tuition in this department, for either course, is \$80.00 per year. This is not covered by the payment of tuition in any other department of the University.

Boys or girls who can produce records of good character and scholarship, but whose circumstances render it practically impossible for them to pay the tuition fee of the school, are invited to write to or consult the Superintendent of the Manual Training school. In such cases the occupation of the father should be given. It must not be assumed, however, that because application is made that a scholarship will always be given; it may be thought that the applicant is not entitled to special consideration.

DEPOSIT.—A deposit of five dollars is required from each student to cover possible damage to the property of the school, which must be increased whenever the assessments exceed the original amount. This will be returned, less the assessment, if any, when the student severs his or her connection with the school.

For further information regarding the school, persons are requested to write the Superintendent.

, Supt.

ENGLISH LITERATURE.

Attention is especially invited to this Department, now under the charge of Mary Mrs. Lowe Dickinson, so well known in the higher range of American Literature.

It is the purpose to develop, as rapidly as possible, a symmetrical department, including a knowledge of language, literature and composition.

In the study of English Literature, a solid foundation of history is sought to be laid, and the reciprocal influence of institutions and letters carefully analyzed and determined. This accomplished, an association is established between any given period and its characteristic writers, so that the one invariably recalls the other.

American History is reviewed in connection with American Literature. English History has eighty hours preparatory work, and is constantly cited with its corresponding literature.

Rhetoric, elementary, has a term of 14 weeks in the preparatory, and advanced Rhetoric a full term in the junior year.

The aim is to combine the theory of composition with constant practice. Essays are prepared upon given topics at regular intervals throughout the year. Criticism of various authors is combined with practice in various styles of writing.

Daily five minute themes with class criticism, both oral and written, are a feature of the plan.

Reading of many well chosen books is recommended, but greater prominence is given to minute and careful examination of a few. Free class discussion of books and authors is encouraged, as an aid to the cultivation, both of individual judgment and power of expression.

As the professorship of this department is the Woman's Chair, it is believed that the women of Colorado will see to its ample equipment. At present the library facilities are quite inadequate to the needs of the department, but the students may avail themselves of the very excellent library of the Chamber of Commerce. To a considerable extent, the private libraries of the faculty are also accessible. Additions to the library will be made during the coming year. A choice list of new and desirable books is now being made.

MEDICAL COLLEGE.

FACULTY.

J. C. DAVIS, M. D.	<i>Dean</i>
W. E. WILSON, M. D.	<i>Vice-President</i>
S. A. FISK, A. M., M. D.	<i>Secretary</i>

PROFESSORS.

H. K. STEELE, A. M., M. D., <i>Emeritus Professor of the Principles and Practice of Surgery.</i>
J. W. GRAHAM, M. D., <i>Emeritus Professor of Medicine.</i>
F. J. BANCROFT, M. D., <i>Professor of Fractures and Dislocations.</i>
J. C. DAVIS, M. D., <i>Professor of the Principles and Practice of Surgery.</i>
C. M. PARKER, M. D., <i>Professor of the Practice of Medicine.</i>
A. STEDMAN, M. D., <i>Professor of Obstetrics and Puerperal Diseases.</i>
CHARLES DENISON, A. M., M. D., <i>Professor of Diseases of the Chest and of Climatology.</i>
W. E. WILSON, M. D., <i>Professor of Materia Medica, Therapeutics and the Diseases of Children.</i>
S. A. FISK, A. M., M. D., <i>Professor of the Practice of Medicine.</i>
EDMUND J. A. ROGERS, M. D., <i>Clinical Professor.</i>
F. C. RIVERS, M. D., <i>Professor of Ophthalmology and Otology.</i>
H. H. HOWLAND, M. D., <i>Professor of Laryngology and Rhinology.</i>

W. EDMUNDSON, M. D.,
Professor of Public Hygiene.

J. W. COLLINS, M. D.,
Professor of Gynæcology.

O. J. PFEIFFER, M. D.,
Professor of Orthopædic Surgery and Clinical Surgery.

J. A. SEWALL, M. D., LL. D.,
Professor of Chemistry.

A. K. WORTHINGTON, M. D.,
Professor of Anatomy.

HENRY SEWALL, M. D.,
Professor of Physiology.

J. T. ESKRIDGE, M. D.,
Professor of Mental and Nervous Diseases and Medical Jurisprudence.

LECTURERS.

JESSE HAWES, M. D.,
Lecturer on Obstetrics.

C. B. LYMAN, A. M., M. D.,
Lecturer on Fractures and Dislocations.

A. A. CLOUGH, A. M., M. D.,
Adjunct Professor of Chemistry.

B. C. LEAVITT, A. M., M. D.,
Lecturer on Therapeutics and Materia Medica.

H. B. WHITNEY, A. M., M. D.,
Lecturer on Genito-Urinary Diseases.

W. W. GRANT, M. D.,
Clinical Instructor.

P. V. CARLIN, M. D.,
Clinical Instructor in Obstetrics.

E. R. AXTELL, M. D.,
Lecturer on Pathology and Histology.

E. P. HERSHEY, M. D.,
Lecturer on Bacteriology.

G. W. GIBSON, M. D.,
Demonstrator of Anatomy.

E. B. LAWNEY, M. D.,
Dispensary Physician.

J. W. COLLINS, JR., M. D.,
Dispensary Physician.

GENERAL STATEMENT.

Instruction in this school is given by lectures, recitations, clinical teaching and practical exercises.

The Ninth Annual Session will begin September 17th, 1890, and will close on the third Wednesday of April, 1891, at which time the Commencement Exercises will take place. The Lecture Course will, therefore, extend over a period of seven months. The complete course is graded and embraces an attendance upon three Lecture Courses, with an examination at the end of each course.

An entrance examination will be required of all applicants for admission to the School who are not able to present a diploma from a High School, or its equivalent.

DIVISION OF STUDIES.

The arrangement of the courses is as follows:

First Year—Anatomy, Physiology, Histology, Materia Medica and Chemistry.

Second Year—Anatomy, Physiology, Materia Medica and Therapeutics, Chemistry, Principles and Practice of Medicine and Clinical Medicine, Principles and Practice of Surgery, and Clinical Surgery, Obstetrics, Gynæcology.

Third Year—Principles and Practice of Medicine and Clinical Medicine, Principles and Practice of Surgery and Clinical Surgery, Obstetrics, Diseases of Children, Gynæcology, Ophthalmology and Otology, Laryngology, Diseases of the Chest, Climatology, Physical Diagnosis, Mental and Nervous Diseases, Medical Jurisprudence and Public Hygiene and Diseases of the Genito-Urinary Organs.

CLINICAL INSTRUCTION—Two clinics each week will be given throughout the entire course at the County Hospital (125 beds), under the direction of Professor Rogers, Clinical Professor, and Dr. Grant, Clinical Instructor, assisted by other members of the Faculty. There is also a weekly surgical clinic under Professor Pfeiffer, Chief Surgeon to the Union Pacific Railway, at the Railway Hospital, the best equipped and most perfectly managed hospital in this portion of the country. Dispensary work will be made a prominent feature of the course.

Special Clinics will also be given from time to time, and opportunity afforded to assist in operations, as cases may present, by the members of the faculty who are members of the staff to St. Luke's Hospital (40 beds), and by the Faculty generally, as available cases occur in private practice. Clinics in Gynæcology at the County Hospital, by Professor Collins, and when possible, students will also be invited to assist in private cases.

FEES.

[ALL FEES PAYABLE IN ADVANCE.]

Matriculation fee	\$ 5 00
Lecture fees for the whole course.....	75 00
Admission to the dissecting room.....	5 00
Material at cost	
Laboratory work at cost.....	
Examination for graduation (not returnable).....	30 00

There are a few scholarships for deserving students at the disposal of the Dean.

Alumni of this College can attend the lectures of this school by matriculating, and alumni of other regular medical colleges can attend by matriculating and paying one-half the regular fees.

Students who have attended two full courses of lectures at regular medical schools, one of which shall have been at this college, are admitted to the third term course of lectures by matriculating and paying one-half the regular fees.

(Board and rooms can be obtained in the city at from \$5 to \$10 per week.)

For further information address the Secretary,
 SAMUEL A. FISK, M. D.,
Barth Block, Denver, Colo.

ALUMNI.

Albers, U. L.	1883
Anderson, A. E.	1885
Arbogast, B. A.	1883
Bailey, M. M.	1884
Bennett, H. M.	1886
Campbell, J. O.	1882
Carlin, P. V.	1882
Clifford, J. J.	1887
Clough, A. A.	1886
Coleman, A. W.	1888
Collins, J. W.	1888
Cooney, James	1889
Davison, J. L. T.	1888
Dawson, H. H.	1890
Debeque, W. A. E.	1882
Downing, S. N. A.	1884
Durbin, L. T.	1884
Elliott, G. H.	1882
Estes, N. D.	1886
Geddes, Thomas	1889
Gibbs, S. E.	1883
Gibson, G. H.	1885
Green, J. L.	1886
Hay, Mrs. Rilla G. <i>ad eundem</i>	1885
Hills, W. W.	1885
Hoeffer, A. H.	1886
Ingraham, G. W.	1883
Jackson, F. A.	1888
Johnson, Abijah.	1882
Lawney, Eleanor M.	1887
Liddell, E. M.	1889
Litton, Forbes, M. D., London, Eng., <i>Honorary</i>	1882
MacDonald, N. G.	1884
MacLean, L.	1888
Martin, C. H.	1885
Mertz, L. B.	1889
Mayne, D. J.	1890
Meine, Carl T.	1890
Morehouse, P. E.	1885
Pendleton, G. W.	1888
Perkins, I. B.	1886
Robbins, A. B., <i>Honorary</i>	1885
Roby, W. C.	1890
Sewall, Henry	1889
Sheets, E. A.	1889
Solly, S. Edwin, M. D., <i>Honorary</i>	1888
Smeallie, W. G.	1883
Stearns, H.	1886
Stenhouse, J.	1886
Sveinbjorson, A.	1886
Vroom, J. N.	1889
Walker, M. A.	1889
Worthington, R. H.	1884
Wright, W. M.	1888

SESSION OF 1890-91.

THE DENVER COLLEGE OF PHARMACY.

Department of Pharmacy of the University of Denver.

FACULTY.

W. F. McDOWELL, S. T. B.,

Chancellor of the University, and President of the Faculty.

J. A. SEWALL, M. D., LL. D.,

Professor of Chemistry and Dean of the Faculty.

CHAS. M. FORD, PH. G.,

Professor of Pharmacy.

JOHN KOCHAN,

Professor of Botany and Materia Medica, Secretary of the Faculty.

JOSEPH B. KINLEY, M. D.,

Professor of Microscopy.

THE CURRICULUM.

The course of instruction will be divided into the following departments:

CHEMISTRY—Including Natural Philosophy, Chemical Philosophy and Toxicological Chemistry.

PHARMACY—Including Pharmacopœias, Pharmacal Nomenclature, Metrology, Pharmaco-Technology, Pharmacal Chemistry and Dispensing Pharmacy.

MATERIA MEDICA—Including Therapeutics, Inorganic and Organic Materia Medica, Toxicology and Posology.

PHARMACOGNOSY—Including Structural and Systematic Botany.

MICROSCOPY—Including the construction of the Microscope, Micro-Botany and Pharmacal Microscopy.

THE SCHOLTZ PRIZE.

Mr. E. L. Scholtz, the well known Denver pharmacist, has made provision for an annual prize, consisting of a

fine compound microscope, to be awarded to the student attaining the highest general average at the final examination; provided such average be not less than 90 per cent.

FEES FOR TUITION.

Matriculation Fee (paid but once, but ticket required each session)	\$ 5 00
Lecture Tickets, full course (per session)	50 00
Laboratory Fees (according to time spent in the Laboratory, and for which special rates in each department will be furnished upon application to the professor of the different chairs)	_____

Graduation Fee	10 00
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Students who have attended two full courses at the College may attend further courses without charge.

The matriculation fee is to be taken at the opening of the session. The other tickets are to be paid for during the first month of the term.

Any further information in regard to the College may be obtained by writing to or calling on

JOHN KOCHAN, SECRETARY,

Corner Fifteenth and Larimer Sts.

MATRICULATES, 1889-90.

NAME.	RESIDENCE.	PRECEPTOR.
Edward Pierce Taylor,	Leadville, Colo.	F. J. Macke.
Adelbert Corlis Cole,	Denver, Colo.	L. P. Gore.
John Huecker,	Manitowa, Wis.	J. E. Borstein.
Frank Joseph Noonan,	Denver, Colo.	M. Herr.
Augustus Jae Ward,	Denver, Colo.	C. D. Lippincott.
George J. Ikelman,	Denver, Colo.	Wm. Parquet.

GRADUATES.

Charles J. Clayton,	Denver, Colo.
Ed. B. Weller,	Telluride, Colo.
Timothy J. Brown,	Denver, Colo.
John R. Pitts,	Denver, Colo.

COLLEGE OF DENTISTRY.

FACULTY FOR 1890-91.

WILLIAM F. McDOWELL, *Chancellor of the University and President of the Faculty.*

J. M. NORMAN, D. D. S., *Professor of Operative Dentistry.*

GEO. T. HARTUNG, D. D. S., *Professor of Oral Surgery and Pathology.*

P. T. SMITH, D. D. S., *Professor of Histology and Physiology. Dean.*

S. DAVIS, D. D. S., *Professor of Mechanical Dentistry.*

A. K. WORTHINGTON, M. D., *Professor of Anatomy.*

J. A. SEWALL, M. D., LL. D., *Professor of Chemistry.*

W. E. WILSON M. D., *Professor of Materia Medica.*

G. W. GIBSON, M. D., *Demonstrator of Anatomy.*

R. D. G. TREEN, D. D. S., *Demonstrator of Operative Dentistry.*

CLINICAL INSTRUCTORS.

WILLIAM SMEDLEY, D. D. S.

H. P. KELLEY, D. D. S.

CHARLES H. BAGLEY, D. D. S.

J. H. BEALS, D. D. S.

FEES.

Matriculation Ticket (paid but once)	\$ 5 00
Tickets for Course, including fee for Demonstrator of Anatomy	100 00
Diploma	30 00

Students must matriculate before they can secure admission to the regular course of lectures. All tickets must be taken out early in the session.

The Department of Dentistry has been duly organized by the Trustees of the University of Denver. Ample room for lectures and special room for operative and mechanical departments have been provided and fully equipped in the new addition to the University. The material is abundant and the facilities for practice in the infirmary and laboratory are ample for acquiring a practical education.

For further information address,

P. T. SMITH, *Dean,*

Tabor Block, Denver, Colo.

ALUMNI.

E. W. Varley.....	Ohio
A. L. Sanderson.....	Colorado
A. B. Baker.....	Colorado
Mrs. Anna Chamberlin.....	Colorado
W. R. Wilson.....	Michigan
J. E. Shoemaker.....	Colorado
Sarah May Townsend.....	"
F. A. Rexford..	"
J. Allen Smith.....	"
Herbert S. Reynolds.....	"
Lawrence O'Niell.....	"
Isaac B. McGirk.....	"
Kate De. P. Moyle.....	"
Otto F. Prey.....	"
Henry E. Smith.....	"
Alva H. Sawins.....	"

ANNOUNCEMENT.

The second regular course of Lectures in the Dental Department of the University of Denver will commence on Monday, September 23, 1890, and continue until April 23, 1891.

Of the chairs of Anatomy, Chemistry, Materia Medica, Physiology and Surgery, the class will have the additional benefit of the full course given by these chairs to the students of the Medical Department of the University of Denver.

III.

MISCELLANEOUS INFORMATION.

THE COLORADO SEMINARY.

THE COLORADO SEMINARY.

WILLIAM F. McDOWELL,

President.

ALICE J. BROWNELL,

Principal.

ALMEDA E. LOOMIS,

First Assistant.

ANNIE UNDERHILL,

Second Assistant.

CHARTERED IN 1862.

RE-OPENED IN 1880.

TWO DEPARTMENTS:

THE JUNIOR PREPARATORY AND COLLEGE PREPARATORY.

The Junior Preparatory has its separate building and its own teachers. It was organized to meet the urgent demand for a private school of the best quality, to conduct day scholars through the first eight grades of the common-school course; and, at the same time, to give them more special and individual care than is possible in the crowded room of the public schools. It has had gratifying success, and year after year has sent its graduates into the College Preparatory Department, thoroughly prepared for the advanced work.

The College Preparatory then corresponds to the four years of the best high-school work. It has the advantage of being conducted by the College Faculty, and of being arranged to correspond with the regular college courses. After two years of required studies, the student elects for the two years following two courses, the Classical and the Scientific, fitting for the corresponding Freshman class.

SPECIAL LECTURES.

Several courses of lectures, to be given by eminent specialists, are planned for next year. These will supplement the work of the class room and open new lines to students. They will also be open to the public. Further announcements will be made at the proper time.

THE YOUNG LADIES' HALL.

The University Building, Arapahoe and Fourteenth, is now receiving, as boarders, young ladies only. This Home is under the immediate control of *Mrs. Mary Lowe Dickinson*. Her experience of the highest social life, her personal refinement, her wide observation in many lands and her warm and tender sympathy with the young, make the Home a pure and cheering culture. The Building has been thoroughly renovated, and provision has been amply made for the welfare of its inmates.

HOME FOR YOUNG MEN.

An excellent home for boys has been found with *Mrs. C. Krueger*, on Clarkson Street. The price of board, room, heat, light and care of rooms will be from \$25.00 to \$30.00 per month. The influences in the home will be of the best, and the young men will have most careful Christian attention. Other homes will also be available, allowing large choice.

THE ILIFF SCHOOL OF THEOLOGY.

On July 2, 1889, *Mrs. Elizabeth Iliff Warren* gave the Trustees of the University securities amounting to \$100,000, bearing interest at six per cent. for the endowment of this school. At the same time *Will S. Iliff* gave, for the erection of a hall, \$50,000, available at once. These generous gifts assure the school. For the present, Greek, Hebrew with the Mental and Moral Sciences, are taught in the College of Liberal Arts. In due time the equipment and opening of the Iliff School of Theology will be achieved and announced.

GOVERNMENT.

Nothing is required more than befits a scholar and a gentleman. It is recognized that in this, students need instruction and encouragement, and that formal rules are of less importance than steady care and guidance. What is expected is clearly explained, and requirements made for the good of all are absolutely enforced. The Ladies' Home is a family, and its regulations are of a gentle nature. The rules of the school contemplate aid in forming personal character and in securing success in study. Any who are unwilling to comply with the same are promptly excused from attendance.

RELIGIOUS USAGES.

Prayers are held in the Chapel every school-day morning, at which all students attend. Presence at service on Sunday morning is required in some church of the student's choosing, and attendance on Sunday School is warmly recommended. Prayer Meeting is held in the Chapel on Tuesday evening, to which all are cordially invited. And a steady effort is made to conform the ways of the school and the experiences of its members to the mind of the great Teacher and Redeemer.

PRIZES.

John Hipp, Esq., the first graduate of the University, offers a prize of Fifty Dollars for the best entrance examination to the Freshman Class. The examination is had on the day next before the beginning of the Fall Term and is limited to the Classical course.

R. A. Long, Esq., establishes a prize of twenty-five dollars for the best original English Oration, and the same sum for the best original Essay. The award in 1890 was for the oration to Everett F. Benedict, subject, "The Single Tax Theory"; for the essay to Julia Ethel Thomas, subject, "The Peculiar People."

Mrs. Mary Lowe Dickinson gives a prize of twenty-five dollars for the greatest improvement in English

during the year. This prize was for 1890, equally divided between Jesse B. Thornton and Paul Reed.

Margaret P. Evans gives prizes in art as follows :

For the best drawing from Antique \$50, awarded for 1890 to Elizabeth Rathborn.

For the second best drawing from antique \$25, awarded in 1890 to Kate Shannon.

For the best Plate of Fruit or Flowers \$15, awarded in 1890 to Elsie Lindquist.

For the best elementary drawing \$10, awarded in 1890 to Alice Wilkins.

For the best painting in oil or water colors, medal, awarded in 1890 to Cora Sanborn.

For the best portrait from life, honorable mention, awarded in 1890 to Kate Shannon.

ELOCUTION.

Miss Sadie N. Brown, M. O., graduate of the Boston School of Oratory, and experienced in teaching the art in its various branches, gives all needed instruction in the University.

THE CHAMBERLIN ASTRONOMICAL OBSERVATORY.

The Astronomical Department of the University is the Chamberlin Observatory, presented by H. B. Chamberlin, Esq., of Denver. The building will be erected during the present summer, and most of the instruments will be placed in position in September. The observatory is to be constructed of stone, and will have a length of 65 feet, its greatest depth being 45 feet. It will be crowned by a steel dome, the apex of which will be 45 feet above the ground. The chief rooms in the building are the equatorial-room, transit-room, library, computing-room, instrument-room, director's office, clock-room, janitor's quarters, observer's room, photographic-room and store-room. The principal instrument is an equatorial refractor of twenty inches clear aperture ; its object-glass is by Alvan Clark & Sons ; the crown lens is reversible, for photography ; the focal length is nearly twenty-six feet ; the mounting is by Fauth & Co., of Washington,

D. C., and embodies some new features. Fauth & Co. are to furnish most of the following subsidiary instruments: A six-inch equatorial (objective by Brashear), a three-inch meridian circle, a standard sidereal clock, a standard mean time clock, a chronograph, a Gambey sextant with mercurial horizon, a sidereal chronometer, a solar transit, etc. The twenty-inch equatorial will be supplied with the usual accessories.

The observatory site is in University Park, about half a mile from the University Campus.

The cost of this large-hearted gift to the University is in the neighborhood of \$50,000.

UNIVERSITY CHARGES.

The charges in the College of Music, the Business College and the Manual Training School are given in the announcements of those departments. Those of the Colleges of Medicine, Dentistry and Pharmacy are announced in their special catalogues.

ACADEMIC DEPARTMENT.

DAY SCHOLARS.

	BY THE TERM.	COLLEGE CLASSES.	PREPAR- ATORY.
First Term.....	Due Sept 3.....	\$ 40 00	\$ 32 00
Second Term.....	Due Jan. 7.....	32 00	26 00
Third Term.....	Due April 1.....	28 00	22 00
	Total.....	\$100 00	\$ 80 00

Licensed preachers free. Children of Clergymen in regular ministerial work, one fourth of the above rates.

Scholarship coupons are received for tuition in the Academic Department according to the terms and conditions thereof.

In case of delay of payments beyond the time when due, interest will be charged at the rate of ten per cent. per annum.

A single study is \$1.50 per week.

Fine Arts are given under their own heading.

Any and all bills are paid to the Financial Agent.

YOUNG LADIES' HOME.

FOR THE ACADEMIC YEAR,

Furnished room, light, heat, table board and tuition and wash-

ing one dozen pieces per week in Academic Department. . \$400 00

For the first term—due Sept. 3..... 165 00

For the second term—due Jan. 7..... 129 00

For the third term—due April 1..... 129 00

Charges during vacation are \$1.00 per day.

This is a slight advance over last year's charges, and is made to cover items not heretofore included in the general charges.

Each boarding student brings two pairs of sheets, two pairs of pillow cases, three pairs of towels and two pairs of napkins—each article indelibly marked.

Boarding for girls in the Business Department are charged \$200 for five months, or \$45 for single months.

Note—The charge for extra washing, except for bedding, is fifty cents per dozen.

Any and all bills are paid to the Financial Agent.

GENERAL TABLE OF CHARGES.

ACADEMIC DEPARTMENT.

DAY STUDENTS.

	<i>Collegiate.</i>	<i>Collegiate Preparatory.</i>
First term—due Sept. 3.....	\$ 40 00	\$ 32 00
Second term—due Jan. 7.....	32 00	26 00
Third term—due April 1.....	28 00	22 00

Single studies, \$1.50 per week.

First-honor graduates of High Schools in Colorado, have Academic tuition *free*—if ready for a Collegiate Class.

YOUNG LADIES' HOME.

Board with Academic Tuition, per year.....	\$400 00
For the first term—due Sept. 3.....	165 00
For the second term—due Jan. 7.....	129 00
For the third term—due April 1.....	129 00

HOME FOR YOUNG MEN.

Board, room, heat, light, etc	\$25.00 to \$30.00
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MUSIC.

PREPARATORY COURSE.

	<i>1st Term, 16 Weeks.</i>	<i>2d Term 13 Weeks.</i>	<i>3d Term, 10 Weeks.</i>
Class lessons (3 in class) one hour per week..	\$ 6 00	\$ 5 00	\$ 4 00
The same, two lessons per week.....	12 00	10 00	8 00
Private lessons, one-half hour per week....	8 00	6 50	5 50
The same, two lessons per week.....	16 00	13 00	11 00

ADVANCED COURSE.

Class lessons (3 in class) one hour per week.	12 00	10 00	8 00
The same, two lessons per week.....	24 00	20 00	16 00
Private lessons, one-half hour per week....	16 00	13 00	11 00
The same, two lessons per week..	32 00	26 00	22 00

HARMONY, THEORY, COUNTERPOINT, MUSICAL FORM AND COMPOSITION.

In classes, one hour per week..... 8 00 6 50 5 50

Tuition strictly payable in advance.

VOCAL DEPARTMENT.

Terms of Tuition for One Month.

Two lessons per week of sixty minutes each.....	\$24 00
“ “ “ “ “ forty “ “	16 00
One “ “ “ “ “ sixty “ “	12 00

CLASS LESSONS.

Class of six pupils, two lessons per week, each.....	\$ 4 00
Ladies chorus, two lessons per week, each.....	2 00
Special rates for higher grades.	

DEPARTMENT OF FINE ARTS.

	1st Term.	2d Term.	3d Term.
Pencil and Perspective Drawing, } Two lessons per week, }	\$ 16 00	\$13 00	\$11 00
Crayon, Water Colors or Oil.....	20 00	16 00	14 00
China Painting.....	24 00	20 00	16 00
Modeling, term twelve weeks, two lessons per week, Life Class.	\$30 00		
Casts.....		25 00	

BUSINESS COLLEGE.

Full Course, five months (including Book-keeping, Arithmetic, Business College, Commercial Law, Penmanship, Spelling, Punctuation, Construction of Sentences, Business Forms)	\$ 50 00
By the month.....	12 00
Shorthand and Typewriting, five months,	\$50 00
Writing by the month	5 00

MANUAL TRAINING.

For either course, per year.....	\$ 80 00
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JUNIOR PREPARATORY.

	<i>1st Term.</i>	<i>2d Term.</i>	<i>3d Term.</i>
Seventh and Eighth Grades.....	\$ 24 00	\$ 20 00	\$ 16 00
Sixth, Fifth and Fourth Grades.....	20 00	16 00	14 00
Third, Second and First Grades.....	16 00	13 00	11 00

For the Medical, Dental, and Pharmaceutical Schools see their special catalogues.

THE YEAR.

The Rev. E. F. Stroeter, Ph. D., takes an important place as teacher of languages. He is a native of Germany, a graduate of the University of Bonn. He has of late been professor at the Central Wesleyan college, Missouri. He is specially assigned to the Latin department, but is entirely master of the French and the German department.

Mrs. Mary Lowe Dickinson has brought the Young Ladies' Home to the highest range of success. Every attention has been given to the culture of its inmates in manner and bearing, in literary taste and achievement, in moral and religious attainment, health, order, cheerfulness and all that pertains to scholarly and social well-fare have thriven abundantly and the Home has won the confidence of all its patrons. It is justified in asking the sympathy and support of all concerned in developing the highest order of womanhood.

Prof. D. T. Wilson, A. M., formerly Vice President and Professor of Mathematics and Natural Sciences in Hedding College, has been elected Associate Professor of Mathematics and Natural Science, in the University of Denver.

Hon. H. B. Chamberlin has presented to the department of Natural Science a collection of shells made by Dr. A. B. Kendig, of Brooklyn. It contains 2,000 specimens, representing 1,200 species and varieties. The museum is to be increased and rearranged this year.

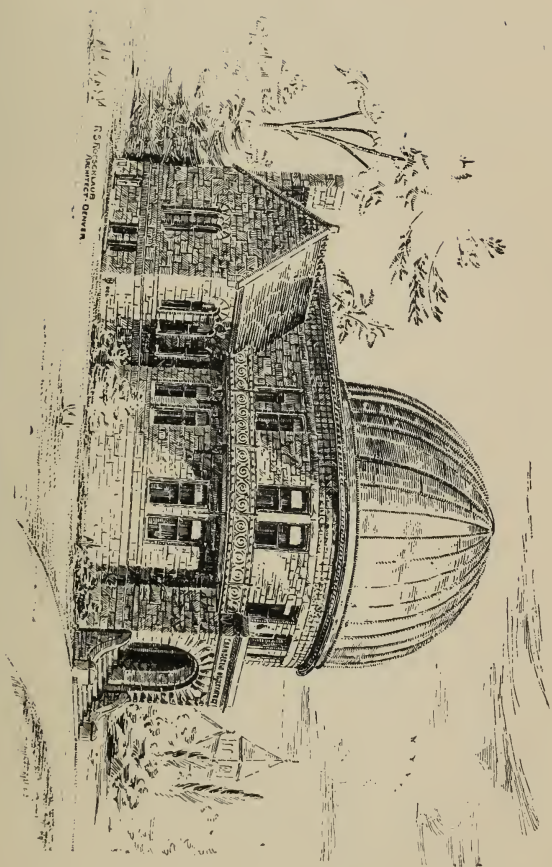
The Medical Faculty have added to the chemical apparatus six hundred dollars worth of valuable appliances, available for the use of classes in the academic department.

The resources in Art have been increased by casts and models, some very rare and beautiful, valued at \$1,000, given by Margaret P. Evans.

The fixtures and furnishings of the Manual Training school have been improved and brought to a high degree of perfection at an expense of over \$2,000.

At University Park grading of streets and planting of trees have received due attention. Eight residences of brick have been built, some of great beauty, and others are in progress. The Observatory is coming into completion and the foundation of the main building,

CHAMBERLIN OBSERVATORY.



a magnificent structure commanding the landscape far and wide, and adequate to the fullest needs of the college of liberal arts, has been finished. The building will be completed as rapidly as possible.

The attractions of the Park, now provided with water, transit and growing shade, draw public admiration and inquiry, and there is no doubt of the rapid and healthy growth of a beautiful University town.

The entire property of the University is now over a million dollars, much of it in land and other property, and therefore unproductive at present.

IV.

CATALOGUE OF ATTENDANCE,
1889-90.

UNDERGRADUATES.

SENIORS.

Hicks, Arthur W. T.,	Denver
Lewis, Wilbert Emlen,	Denver
McCord, Wilhelmina C.,	Pittsburg, Pa.
Shattuck, Orville Frank,	Denver

JUNIORS.

Johnson, James Everett,	Georgetown, Colo.
Post, John Joseph,	Georgetown, Colo.

SOPHOMORES.

Benedict, Everett Flower,	Greeley, Colo.
Pabor, Edgar Allan,	Denver

FRESHMEN.

Dever, Charles S.,	Delaware, O.
Hopkins, Robert Vanniman,	Georgetown, Colo.
Hopkins, Addison A.,	Denver
Stearns, Nellie J.,	Painesville, O.
Stover, Geo. H.,	Ft. Collins, Colo.
Thomas, Julia Ethel,	Denver

IRREGULAR COLLEGIATE.

Brooks, Bertha,	Gunnison, Colo.
Pease, Nora E.,	Denver

ENTERING FRESHMEN.

Aldrich, Paul I.,	Monte Vista, Colo.
Armstrong, Caroline Eleanor,	Ft. Collins, Colo.
Atcheson, George,	Denver
Battis, Grace Edna,	Denver
Dieter, Emma Celia,	Wheat Ridge, Colo.
Fowler, Charlotte Jane,	Canon City, Colo.
Hanchett, Frank Burnham,	Denver
Knight, Robert Burns,	Denver
Krueger, Fred Tevis,	Denver
Loescher, Mattie Augusta,	Georgetown, Colo.
Nash, Cora Belle,	Empire, Colo.
Prewitt, Will Arthur,	Denver
Rhoades, Helen Gray,	Denver
Walker, Elizabeth Allen,	Whitewater, Colo.

COLLEGE PREPARATORY.

Armstrong, May L.,	Cimaron, Colo.
Andrews, Clara Dubois,	Denver
Batchelder, Clara B.,	Denver
Bancroft, George J.,	Denver
Beardsley, Rose M.,	Denver
Bennett, Norman D.,	Valverde, Colo.
Blamey, Sarah,	Denver
Bozard Anna T.,	Denver
Brown Edward N.,	Denver
Brown Elizabeth I.,	Denver
Burnham, Florence,	Denver
Burpee, Fay,	Denver
Calvert, Olive S.,	Denver
Carrier, Lola M.,	Denver
Cameron, Mary McIntosh,	Denver
Chase, John H.,	Denver
Chenowith, Edgar B.,	Denver
Church, Mary H.,	Broomfield, Colo.
Connable, Walter M.,	Petoskey, Mich.
Daniels, Mabel Luella,	Denver
Dever, Charles S.,	Mabel, O.
Dahl, Thomas P.,	Denver
Evans, Albert,	
Fitzpatrick, Josephine M.,	Georgetown, Colo.
Finlee, Emma G.,	Canon City, Colo.
Fletcher, Magdelene B.,	Denver
Ford, Georgiana,	Las Animas, Colo.
Foster, Anna,	Pittsburg, Pa.
Frew, Maud,	Denver
Gay, Stephen R.,	Denver
Gibbs, Alice C.,	Denver
Graham, John W.,	Denver
Graham, Thomas,	Denver
Greenlee, Viola,	Idaho Springs, Colo.
Greenfield, Walter,	Durango, Colo.
Hallack, Gertrude F.,	Denver
Hanchett, Frank G.,	Denver
Hannaman, George,	Pontiac, Ill.
Hannon, Susie A.,	Canon City, Colo.
Hardy, Ada M.,	Georgetown, Colo.
Hartman, Willie A.,	Denver

Hazard, Wm. Jonathan,	Denver
Hopkins, Louise M.,	Denver
Hopkins, Edwin K.,	Denver
Iliff, Edna,	Denver
Ish, Howard J.,	Denver
Johnson, Pearl B.,	Denver
Judkins, Mary,	Denver
Kennedy, E. W. N.,	Denver
Lawrence, Henry Scott,	Denver
Lewis, Hattie S.,	Denver
Leavy, Anna,	Denver
Light, Alice M.,	Denver
Light, Blanche I.,	Denver
Lindsey, Samuel J.,	Denver
Lipe, Walter E.,	Denver
Loomis, Effie,	Ft. Collins, Colo.
Markwell, Nannie,	Denver
Mayham, Clara E.,	Denver
McCartney, Sadie E.,	Denver
McConnell, Ernest,	Denver
McConnell, Wythe,	Denver
Millett, Arthur N.,	Denver
Mulqueen, James T.,	Denver
Morgan, Alphonso,	Cleveland, O.
Nash, Cora B.,	Empire, Colo.
Pattison, Lulu,	Denver
Paul, Louis P.,	Jerseyville, Ill.
Peers, Frank O.,	Central City, Colo.
Pinkney, Mary D.,	Denver
Pinkney, Louisa,	Denver
Porter, Dora G.,	Denver
Prentice, Ida W.,	Denver
Reed, Paul L.,	Denver
Reed, Ruth Annie,	Denver
Rhoades, Sarah,	Denver
Richardson, Frank Levi,	Argo, Colo.
Richardson, Fred,	Argo, Colo.
Rice, Selina Aloise,	
Sands, Anna,	Denver
Sheets, Charles W.,	Denver
Silver, Henry C.,	Denver
Sloan, Robert H.,	Denver
Sopris, Cora M.,	Trinidad, Colo.

Snyder, Clark H.,	Denver
Sterling, Harry H.,	Helena, Mont.
Spencer, Ben. Davis, Jr.,	Denver
Stevenson, Albert A.,	Evansville, Ind.
Thacker, Jennie P.,	Denver
Thomas, Emma Eugene,	Denver
Thompson, Mary Andrews,	Denver
Thompson, James S.,	Denver
Thornton, Earl Clark,	Denver
Thornton, Jessie B.,	Denver
Towle, Florence,	Sapinero, Colo.
Valentine, Ralph E.,	Denver
Vollentine, Mabel,	Ft. Collins, Colo.
Van Hove, John,	Denver
Wade, Charles C.,	Griggsville, Ill.
Walker, Mabel D.,	Denver
Waters, Mary Edith,	Denver
Wall, Herbert,	Denver
Weber, Herman,	Denver
Welsh, Mary L.,	Denver
Wheeler, Mary F.,	Denver
Wheeler, Maude L.,	Denver
Wheeler, Mamie E.,	Denver
White, Walter E.,	Denver
Wilkins, Bertha,	Alamosa, Colo.
Wilkins, Alice,	Alamosa, Colo.
Wilson, Luna J.,	Denver
Wilson, Emma,	Denver
Witter, Clara V.,	Denver
Wight, Lucy B.,	Denver
Wright, Louise G.,	Denver
Wright, Lizzie R.,	Denver

JUNIOR PREPARATORY.

Atchison, John,	Denver
Atchison, Ida,	Denver
Arnold, Elgie,	Denver
Beymer, Clifford,	Denver
Beecher, George,	Denver
Burnham, Norman, (deceased),	Denver
Barcus, Arthur,	Denver

Blatcherley, Margery,	Denver
Bennett, Erastus,	Denver
Blamey, Sarah,	Denver
Beebe, John,	Denver
Beesley, Alice,	Denver
Bronson, Charles,	Denver
Brossard, Effie,	Central City
Bowles, William,	Denver
Burgess, Fred,	Argo
Bullock, George,	Denver
Culver, Etta,	Denver
Chase, Winnie,	Argo, Colo.
Chase, Edith,	Argo
Chamberlin, Robert,	Denver
Chamberlin, Claire,	Denver
Carpenter, Hattie,	Ft. Cummings, N.M.
Cornwall, Milo,	Denver
Curry, Floyd,	Denver
Cheney, John,	Denver
Clayton, Maggie,	Denver
Davis, Theodore,	Denver
Donnell, Harry,	Denver
Dawson, Bert,	Denver
Donagan, Lulu,	Denver
Doll, Howard,	Denver
Dunn, Hugh,	Saguache
Dolloff, Edna,	North Denver
Foote, Chas.,	Utica, N.Y.
French, Thomas,	Denver
Gabbert, Nellie,	Telluride
Griffis, Maud,	Sterling
Goodman, Frank,	Denver
Harrington, Guy,	Denver
Huett, Charles,	—
Hayden, Neille,	Denver
Hopkins, Wilbur,	Denver
Iliff, Laura,	Salt Lake
Iliff, May,	Salt Lake
Jacques, Frank,	Denver
James, Alfred,	Denver
Kendrick, James,	Denver
Langhorne, Lewis,	St. Louis
Lowe, Herbert,	Denver

Marquis, Loo,	North Denver
Marquis, Ruth,	North Denver
Munger, Laura,	Chicago
Melburne, Luella,	Denver
Mordy, James,	Soda Springs
Mordy, Mary,	Soda Springs
Mouatt, John,	Denver
McClelland, Nellie,	Alamosa
McKentry, Howard,	Denver
Middlemast, Edna,	Denver
Murry, Archie,	Denver
Moffett, Abbie,	Denver
Melburne, Clarence,	Denver
Miller, Lettie,	Denver
McClaskey, Albert,	Denver
Ovenall, George,	Denver
Pratt, Steven,	Denver
Pratt, Clifton,	Denver
Porter, Robert,	Denver
Patton, Bennie,	Denver
Pendleton, Ira,	Denver
Pim, Willie,	Denver
Rothgerber, Lennie,	Denver
Reckard, Emma,	Georgetown
Richards, Effie,	Denver
Richards, Charles,	Denver
Root, Frances,	Aspen
Rust, Edsall,	Denver
Rundle, James,	Denver
Richardson, George,	Argo
Ray, Bernie,	Aspen
Richardson, Allie,	Argo
Sayre, Florence,	Denver
Sayre, Edith,	Denver
Sayre, Randolph,	Denver
Smith, Dwight,	Denver
Smith, Charles,	Denver
Smith, Rolla,	—
Smith, John,	Denver
Smith, Thurston,	Denver
Sharpe, Roy,	Denver
Small, Florence,	Denver
Tedford, Oliver,	Denver

Tegeler, Mary,	Denver
Vroom, Peter,	Denver
Veatch, Edmund,	Denver
Van Holstein, L. J.,	Denver
Vandegrift, Guy,	Aspen, Colo.
Welch, Alice,	Denver
Walker, Maurice,	Denver
Walley, Nellie,	Denver
Wahl, Willie,	Highlands
White, Laura,	Denver
Wright, Arthur,	Denver
Wollaston, Fred,	Denver
Weeber, Celia,	North Denver
Weeber, Nora,	North Denver
Wheeler, Mary,	North Denver
Wheeler, Annie,	North Denver
Weiner, Romeo,	Denver
Wilhelm, Gussie,	Denver
Wallin, Minnie,	Denver
Youngs, Henry,	Denver
Yousse, Clara,	Denver

HAISH MANUAL TRAINING SCHOOL

THIRD YEAR.

Atcheson, George,	Denver
Bennett, N. D.,	Denver
McConnell E.,	Table Rock, Colo.
Giddings, A. B.,	Denver

SECOND YEAR.

Beecher, Geo. M.,	Denver
Burnham, Norman G.,	Denver
Connable, Wm. M.,	Denver
Hazard, Wm. J.,	Denver
Lipe, Walter E.,	Denver
Spencer, Ben. D.,	Denver
Thornton, Jessie B.,	Denver
Weber, Herman R.,	Denver
Valentine, Ralph,	Denver

FIRST YEAR.

Burpee, Fay,	Denver
Brown, Edward,	Denver
Bowles, William,	Denver
Bullock, George,	Denver
Beymer, Clifford,	Denver
Church, Mary,	Broomfield, Colo.
Cox, William B.,	Denver
Chamberlin, Clarence,	Denver
Dawson, Bert,	Denver
Fitzpatrick, Josie,	Denver
Finlee, Emma,	Denver
Greenfield, Walter,	Durango, Colo.
Gemmrig, ———	Denver
Light, Blanche,	Denver
Millett, Arthur,	Denver
McConnell, Wythe,	Denver
Paul, Louis,	Denver
Prentice, Ida W.,	Denver
Pinkney, Mary,	Denver
Pinkney, Louise,	Denver
Reed, P. L.,	Denver
Richardson, Frank,	Argo, Colo.
Steinwandel, Stella,	Denver
Sterling, Harry,	Denver
Sloan, Robert,	Denver
Smith, Dwight,	Denver
Thomas, Ethel J.,	Denver
Welch, Lulu,	Denver
White, Walter,	Denver
Wight, Lucy,	Denver
Wheeler, Maud L.,	Denver
Wheeler, Mamie E.,	Denver
Wheeler, May F.,	Denver
Weiner, Romeo,	Denver

COLLEGE OF MUSIC.

Grace Judkins.
Shirley Maggard.
Pearl Gildersleeve.

Grace Hickey.
A. J. Loustano.
Mattie Fleming.

Evelyn Phelps.	Ada Silcott.
Mabel Aldrach.	Effie Loomis.
C. P. French.	Earl Thornton.
Emma Morse.	Mrs. J. Leeson.
Lizzie Wright.	Alvida Bloom.
Matilda French.	Blanche Light.
Carrie Armstrong.	S. Riche Loustano.
Nellie Gabbert.	Mrs. L. Campbell.
Josephine Osborne.	Sarah Blamey.
Stella Steinwandel.	Ida Prentis.
Maude Griffis.	Mrs. C. W. Hoyt.
Lida Dodd.	Mrs. E. S. Day.
Bertha Wilkins.	May Iliff.
Alice Wilkins.	Lena Head.
Mabel Vollentine.	Scott Lawrence.
Hattie Carpenter.	Mrs. W. B. Tebbitts.
Irene Viancourt.	Elsie Lindquest.
S. K. Hopkins.	Laura Iliff.
Margaret Watson.	E. S. Perkins.
Natalie French.	M. Bordeaux Fletcher.
Sadie McCartney.	Aille Rice.
Lydia Pringle.	E. F. Wilkerson.
Ada Blake.	Winnifred Vaughn.
Josie Meeriat.	Maud Aiken.
Nettie Keener.	May De Franz.
Mabel PaDelford.	Mrs. C. A. McMaster.
Georgiana Ford.	Rowena Lunbeck.
Florence Towle.	Grace Norman.
Maide Hayden.	Mrs. Willard West.
Minnie Davis.	Bertha Bessey.
Margaret Watson.	Maud Pucket.
Lulu Nye.	Etta Simpson.
Luna Wilson.	Penelope Pucket.
Winifred Roberts.	Sadie Hasford.
Blanche Light.	Minnie Hikok.
Ethel Thomas.	Mrs. Carrie Jackson.
Mr. Charles Johnson.	Mrs. H. E. Tucker.
Mr. Porter Higby.	Rebecca Archer.
Mrs. Ida Serven.	Mrs. Mollie F. Weeber.
Mrs. B. L. James.	Ada Davis.
Nellie VanDiest.	Mrs. D. Shoemaker.
Eula Wulfjen.	Nellie Goodall.
Mrs. Melville Upton.	Miss Miner.

Mrs. E. P. Martin.	Carl Toll.
Nellie Alling.	Susie Fisk.
Eva Davis.	Ella Young.
Maud Wheeler.	Louisa Hughes.
Gertrude Hallack.	Mabel Gilluly.
Mamie Wheeler.	Laura Iliff.
Martha Young.	May Iliff.
Helen Rhoades.	Elizabeth Jerome.
Lizzie Walker.	Cornelia Jerome.
Martha Johnson.	Alice Dickenson.
Sara Rhoades.	Abbie Moffat.
Cora Nash.	Phil Dickenson.
Nellie Gabbert.	Edith Serven.
Lida Dodd.	Rosamund Denison.
Celia Weeber.	Grace Sylla.
Roy McMaster.	Flora Dodd.
Lucy McMaster.	

ART DEPARTMENT.

SCULPTURE.

Mrs. Mary P. Nichols.	Miss Alice Welch.
Miss Grace C. Sylla.	Mrs. B. Millett.
Miss Hilda M. Hagar.	Miss Ellen Sterns.
Miss Claudia McCourt.	Mr. James Thompson.
Miss Ida Prentice.	Miss Lulu Welch.

PAINTING IN WATER COLORS.

Mrs. W. B. Tebbitts,	Denver
Miss Cora Sanborn,	Denver
Mr. George Atcheson,	Denver

PAINTING IN OIL COLORS.

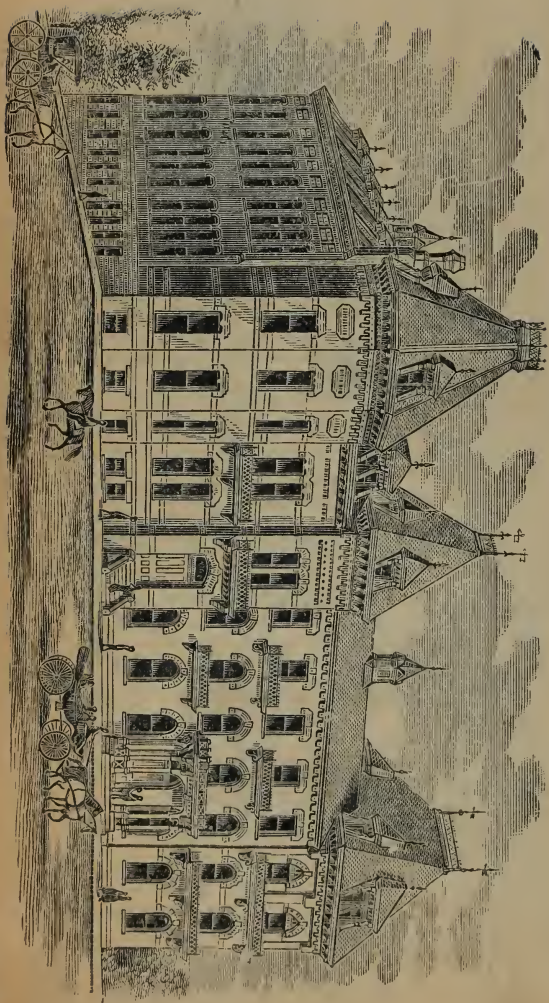
Miss Cora Sanborn,	Denver
Miss Nellie Peabody,	Denver
Miss Kittie Malone,	Denver
Miss Clara Wight,	Denver
Miss Eula Wulfjen,	Greeley, Colo.
Mrs. Bissel,	Denver
Mrs. E. S. Day,	Denver
Mrs. E. J. Bent,	Ouray, Colo.

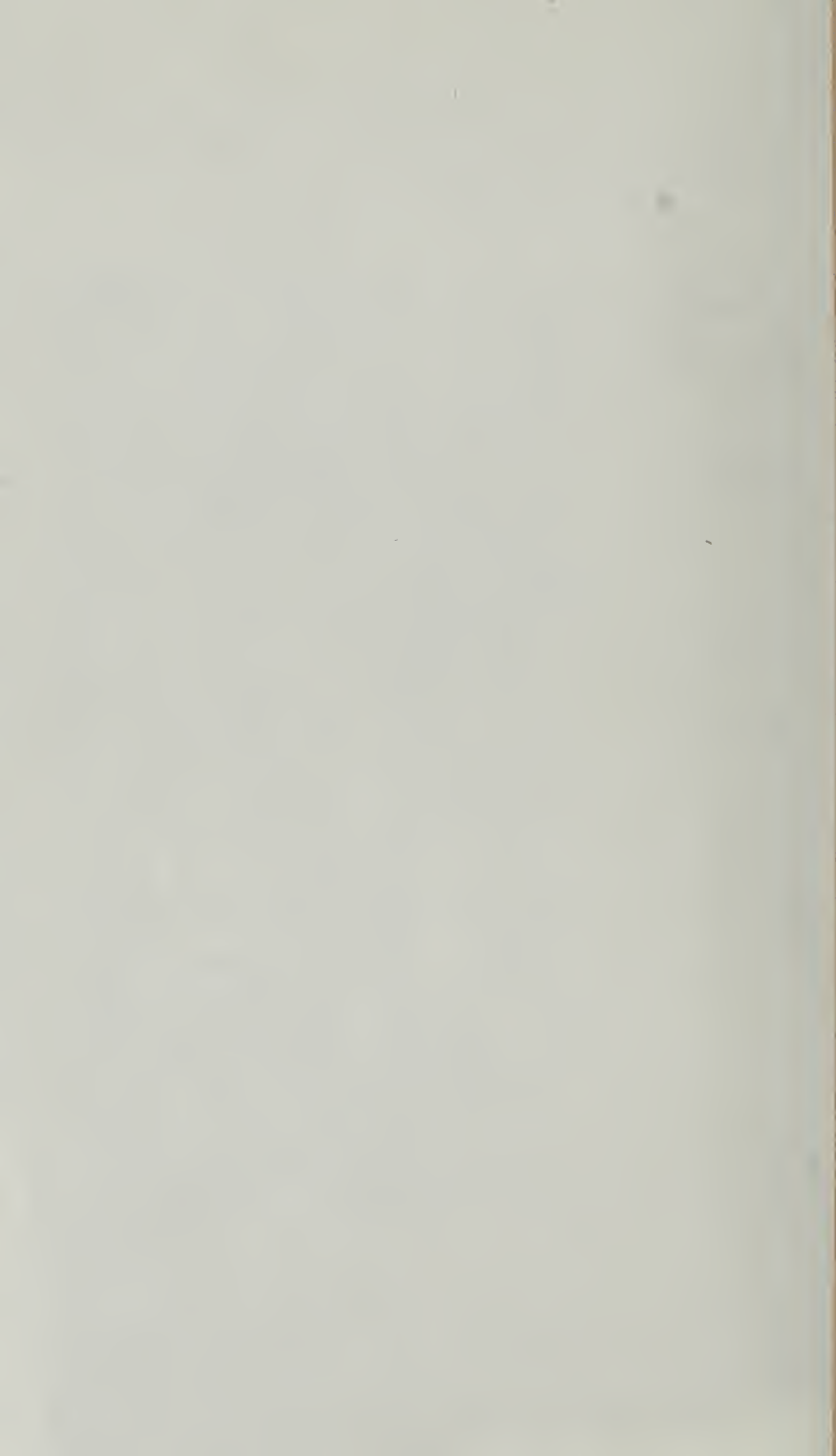
CHARCOAL.

Miss Elizabeth Rathvon,	.	.	.	.	Denver
Miss Bordeaux Fletcher,	.	.	.	.	Denver
Miss Elsie Lindquest,	.	.	.	.	Denver
Miss Florence J. Burnham,	.	.	.	.	Denver
Miss Alice Wilkins,	.	.	.	.	Denver
Miss Florence Tidball,	.	.	.	.	Denver
Miss Pearl Gildersleeve,	.	.	.	.	Denver
Miss Kate F. Shannou,	.	.	.	.	Denver
Miss O. A. Behrens,	.	.	.	.	Denver
Miss Mary Bancroft,	.	.	.	.	Denver
Miss B. Wildhagen,	.	.	.	.	Denver
Guy Vandegrift,	.	.	.	.	Aspen, Colo.
Mrs. F. W. Wright,	.	.	.	.	Denver
Miss Maude L. Calkins,	.	.	.	.	Denver

THE PATRONAGE OF ALL THE SCHOOLS.

Academic Department	.	.	.	.	.	157
Business College	.	.	.	.	.	340
Fine Arts: Painting, 22; Moulding, 9;	.	.	.	.	.	31
Music	.	.	.	.	.	140
Manual Training	.	.	.	.	.	48
Medical and Dental Schools	.	.	.	.	.	30
School of Pharmacy	11
Junior Preparatory	114
Total	871





UNIVERSITY OF ILLINOIS-URBANA



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